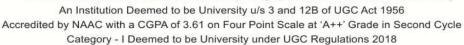


A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

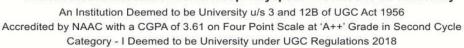
COMPETENCY BASED DYNAMIC CURRICULUM FOR FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Anatomy, Histology and Embryology)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

INDEX

SI. No	Description	Page Number
1	Preamble	04
2	Program Outcomes (PO)	05
3	Course Outcomes (CO)	06
4	Teaching Hours	07
5	Course Content	09
6	Teaching Learning Methods	27
7	Content Mapping (Competencies Table)	29
8	Practical Topics (Non-Lecture Activities)	103
9	Assessment	104
10	List of Recommended Books	114
11	List of Contributors	116



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

FINAL VERSION OF COMPETANCY BASED CURRICULUM FOR ANATOMY FOR FIRST BHMS COURSE

Subject- Human Anatomy

Subject Code: Hom UG-AN



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

1. PREAMBLE

Anatomy is a study of the structural organization and development of man from gross to cellular aspects along with exploring the interrelationship of different tissues, organs and systems.

An important aspect for the homoeopathic student to grasp is the essentially holistic approach emphasized by Hahnemann. From that perspective, study of anatomy is not a study of isolated organs, parts or tissues but that of a hierarchical system which is intimately interconnected and functions with a purpose of striking balance when in a state of adaptation. The subtle ways in which this balance is lost through a malfunctioning of the vital force needs to be appreciated. This can occur when anatomy is taught with applied anatomy in the background.

While anatomy explores the structural organization of man, physiology gives us an understanding of the functional organization of the human being. These subjects, which are in reality the two sides of the coin, need to be taught interdependently. This enables the student to develop an insight into the essential interconnection of both in normal health and how both these alter when the disease process gets initiated in the system. This will also reduce the number of teaching hours due to avoiding duplication of information. While the clinical integration is taking place, homoeopathic connection is emphasized when the relevance of the Homoeopathic subjects being taught in the 1st year (Philosophy, Materia Medica, Pharmacy and Repertory), is simultaneously brought to the forefront and hence student-centered teaching of the first BHMS year be achieved.

Advances in the understanding of tissues and cell structures which subsume functions of the organs and systems can afford a fertile area for exploring the action of drugs of Materia medica.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

2. PROGRAMME OUTCOMES

At the end of BHMS program, a student should;

- 1. Develop the competencies essential for primary health care in clinical diagnosis and treatment of diseases through the judicious application of homoeopathic principles.
- 2. Recognize the scope and limitation of homoeopathy and to apply the Homoeopathic Principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community.
- 3. Discern the relevance of other systems of medical practice for rational use of cross referral and life saving measures, so as to address clinical emergences.
- 4. Develop capacity for critical thinking and research aptitude as required for evidence based homoeopathic practice.
- 5. Demonstrate aptitude for lifelong learning and develop competencies as and when conditions of practice demand.
- 6. Be competent enough to practice homoeopathy as per the medical ethics and professionalism.
- 7. Develop the necessary communication skills to work as a team member in various healthcare setting and contribute towards the larger goals of national policies such as school health, community health, environmental conservation.
- 8. Identify and respect the socio-demographic, psychological, cultural, environmental & economic factors that affect health and disease and plan homoeopathic intervention to achieve the sustainable development Goal.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. COURSE OUTCOMES

At the end of the I BHMS course, I BHMS student should be able to;

- 1. Discuss the evolution of life and the developmental anatomy and genetics of human.
- 2. Explain the ethics of Anatomy, such as Anatomy act, Body donation & receiving procedure and its legal aspects, develop respect to the human cadaver.
- 3. Differentiate the structural organization of man from micro to macro and its evolution from embryo.
- 4. Correlate the structural organization of man with functional organization and its applied aspect.
- 5. Apply anatomy knowledge to achieve vertical integration with clinical subjects.
- 6. Correlate structural organization of man with Homeopathic Philosophy and concept of man, Homoeopathic Materia Medica, Repertory and Pharmacy.
- 7. Correlate structural organization in interpreting different investigations.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. TEACHING HOURS

SI. No.	Subject	Theoretical Lecture	(Non – Lecture hours) Practical / Tutorials / Seminars / Clinical Postings
01	Anatomy	325 hrs.	33ohrs.

Theory (hrs)	Non-lecture (hrs)	
325	Practical	Non-lecture activities
3-3	250	80
Total – 655 hours		

a. TEACHING HOURS (THEORY)

	Paper-I		
Sl. No	List of Topics	Term	Teaching Hours
1	General Anatomy	I	32
2	Head, Neck & Face	II	50
3	Central Nervous System	II	30
4	Upper Extremities	I	35
5	Embryology	I	20

	Paper-II		
Sl. No	List of Topics	Term	Teaching Hours
1	Thorax	II	28
2	Abdomen & Pelvis	III	70
3	Lower Extremities	III	40



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4	Histology	I	20

b. TEACHING HOURS (PRACTICAL)

Sl. No	List of Topics	Term	Teaching Hours
1	Head, Neck & Face	II	56
2	Central Nervous System	II	16
3	Upper Extremities	I	34
4	Thorax	=	30
5	Abdomen & Pelvis	Ш	50
6	Lower Extremities	III	40
7	Histology	I	24



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

5. COURSE CONTENT: Syllabus Planning

a. Theory:

- **a.** Syllabus should start with revision of some of important topics of BIOLOGY (To connect Biology to Medical Science), origin of Earth and Environment, Origin of LIFE-Evolution of Human Lives.
- **b.** The complete course of Human Anatomy should be subdivided in number of modules according to topics/regions/systems.
- **c.** Syllabus of other subjects of same course should be planned out where the maximum integration (Vertical & Horizontal) of topics is possible.
- **d.** Theory/Practical/Tutorial/Case based learning should be arranged in parallel.
- **e.** Each module should be planned according to the need of system-Corelation with Homoeopathy & time dimension (number of hours).
- **f.** At the end of each module knowledge should be assessed by arranging joint seminars (application of classroom knowledge to practical understanding).
- **q.** The curriculum includes the following;
 - 1. Anatomy Act.
 - 2. Body donation procedure and its legal aspects.
 - 3. Develop respect to the human cadaver, empathy towards diseased and sense of gratification for the voluntary body donors and their families.
 - 4. Anatomy and Ethics.

b. Practical

- **a.** Dissection of whole Human Body, Demonstration of dissected parts and small group discussions.
- **b.** Identification of histological slides, related to tissue & organs.
- **c.** Students shall maintain Practical/Dissection & Histology record.

THEORY

SI. No.	Topics	No. of hours	Term
1.	GENERAL ANATOMY		I
	Modern concepts of cell and its components; cell division, types with their significance	2	
	2. Basic tissues	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



3. Genetics		
i. DNA & RNA	6	
ii. Chromosomes		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Sl. No.	Торісѕ	No. of hours	Term
	iii. Genes		
	iv. Inheritances		
	v. Genetic basis of diseases and Integration		
	with homoeopathic concept of miasmatic influence		
	4. Basics of General Anatomy-		
	i. Definition and subdivisions of Anatomy	1	
	ii. History of Anatomy	1	
	iii. Anatomical terms of position &	2	
	movement	2	
	iv. Skin, superficial and deep fasciae	2	
	v. Muscles	2	
	vi. Bones vii. Joints	2 2	
	viii. Blood vessels	2	
	ix. Lymphatic system	2	
	x. Nerves	2	
	xi. Glands: types and classification		
	5. Revision	2	
	Total Hours	32	
2.	DEVELOPMENTAL ANATOMY (EMBRY	OLOGY)	I
	1. Introduction	1	
	2. Spermatogenesis	1	
	3. Oogenesis	1	
	4. Fertilization	1	
	5. Cleavage and implantation	2 2	
	6. Bilaminar germ disc formation	3	
	7. Gastrulation: Germ layers & Derivatives	5 1	
	8. Intraembryonic mesoderm derivatives:	1	
	Somites	1	
	9. Ossification	1	
	10. Notochord	2	
	11. Folding of the embryonic: formation of	1	
	primitive gut	2	
	12. Placenta		
	13. Revision		
	Total Hours	20	

11



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

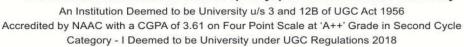
Category - I Deemed to be University under UGC Regulations 2018



3. HISTOLOGY (General)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

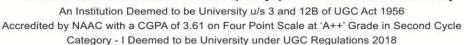




Sl. No.	Topics	No. of hours	Term
	1. Introduction	1	
	2. Epithelial tissue	2	
	3. Connective tissue	2	
	4. Cartilage	1	
	5. Bone	1	
	6. Muscle	2	
	7. Nervous tissue	1	
	8. Skin	2	
	9. Lymphoid organs	2	
	10. Blood vessels	2	
	11. Glands	2	
	12. Revision	2	
	Total Hours	20	
4.	UPPER EXTREMITY		I
	1. Introduction	1	
	2. Pectoral region and axilla	2	
	3. Mammary Gland	2	
	4. Brachial plexus	2	
	5. Axillary artery	1	
	6. Back and Intermuscular spacesaround scapula	2	
	7. Shoulder Joint	2	
	8. Musculocutaneous and axillary nerves	1	
	9. Arm and cubital fossa; brachial artery	2	
	10. Fore arm: Muscles, nerves and blood vessels (Superficial and Deep Flexors and Extensors)	4	-



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





11. Radial artery	1	
12. Ulnar artery	1	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





Sl. No.	Торісs	No. of hours	Term
	13. Median nerve	2	
	14. Ulnar nerve	1	-
	15. Radial nerve	2	-
	16. Elbow joint and radio-ulnar articulations	2	-
	17. Wrist joint	1	-
	18. Flexor and extensor retinacula	1	-
	19. Palmar aponeurosis and spaces in palmar spaces	2	
	20. Venous drainage of upper extremity	1	-
	21. Revision	2	-
	Total Hours	35	-
5.	LOWER EXTREMITY		III
	1. Introduction	1	
	2. Lumbar plexus and femoral nerve	2	-
	3. Front of thigh	2	-
	4. Femoral Triangle and Femoral artery	2	-
	5. Median compartment of thigh and obturator nerve	2	-
	6. Gluteal region	2	-
	7. Sacral plexus and sciatic nerve, tibial and common peroneal nerves	4	-
	8. Back of the thigh Popliteal fossa	2	
	9. Hip joint	2	
	10. Front of the leg and dorsum of the foot: Anterior tibial artery, deep peroneal nerve	4	
	11. Back of the leg: Tibial nerve and posterior tibial artery	3	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	12. Side of the leg: Superficial peroneal nerve	2	
--	---	---	--



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Topics	No. of hours	Term
	13. Retinacula around the ankle	1	
	14. Sole of foot	2	-
	15. Knee Joint	2	-
	16. Ankle joint	1	-
	17. Arches of foot	2	_
	18. Venous drainage of lower extremity	2	
	19. Revision	2	-
	Total Hours	40	-
6.	THORAX		II
	1. Introduction	1	
	2. Trachea	1	=
	3. Pleura	1	-
	4. Lungs	3	-
	5. Mediastinum	2	-
	6. Pericardium and Heart	4	-
	7. Blood supply of heart	2	-
	8. Superior mediastinum: Arch of aorta	1	-
	9. Superior mediastinum: Superior Vena cava	1	-
	10. Inferior Vena Cava	1	-
	11. Posterior mediastinum: Azygous vein & Thoracic duct	2	-
	12. Posterior mediastinum: Oesophagus & Descending thoracic aorta	2	-
	13. Diaphragm	1	-
	14. Systemic embryology: Development of Heart and lung	3	-



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



15. System	iic histology: Trachea and Lung	1	
------------	---------------------------------	---	--



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

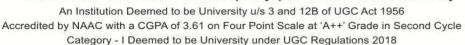
Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Topics	No. of hours	Term
	16. Revision	2	
	Total Hours	28	
7.	ABDOMEN, PELVIS & PERINEUI	М	III
	1. Introduction	1	
	2. Anterior Abdominal wall	2	
	3. Peritoneum	2	
	4. Stomach	2	
	5. Liver	2	
	6. Gall bladder and Extrahepatic biliary apparatus	2	
	7. Spleen	1	
	8. Duodenum	1	
	g. Pancreas	2	
	10. Jejunum and Ileum, Superior mesenteric artery	2	
	11. Caecum & appendix	2	
	12. Large intestine	2	
	13. Portal venous system	2	
	14. Kidney	2	
	15. Supra renal glands	1	
	16. Abdominal aorta	1	
	17. Posterior abdominal wall	1	
	18. Urinary bladder	2	
	19. Ureter	1	
	20. Prostate gland	2	
	21. Ovary	1	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





22. Uterus	2	
23. Fallopian tube	1	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Topics	No. of hours	Term
	24. Scrotum and testis	2	
	25. Vas deferens	1	
	26. Rectum	1	-
	27. Anal canal	1	
	28. Walls of pelvis including pelvic diaphragm	2	-
	29. Perineum: superficial and deep perineal pouches	3	-
	30. Ischiorectal fossa	1	
	31. Systemic embryology: Development of digestive system	4	_
	32. Systemic embryology: Development of urogenital organs	2	_
	33. Systemic histology: Digestive system	4	-
	34. Systemic histology: Urinary system & supra renal gland	2	
	35. Systemic histology: Male reproductive system	2	-
	36. Systemic histology: Female reproductive system	2	-
	37. Revision	6	-
	Total Hours	70	-
8.	HEAD, NECK & FACE		II
	1. Introduction	1	
	2. Scalp	2	
	3. Face: muscles, nerves and blood vessels	2	-
	4. Lachrymal apparatus	1	-
	5. Side of the neck: Posterior triangle	1	1



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



6	. Front of the neck: Anterior triangle and its	3	
	subdivisions		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





Sl. No.	Topics	No. of hours	Term
	7. Deep cervical fascia	1	
	8. Back of the neck: Suboccipital triangle	1	_
	g. Contents of vertebral canal	1	_
	10. Parotid gland	1	_
	11. Submandibular gland	1	_
	12. Muscles of mastication	1	-
	13. Temporomandibular joint	1	-
	14. Thyroid gland	2	_
	15. Cranial cavity: Dura mater, Dural venous sinuses & Pituitary gland	3	_
	16. Contents of the orbit	1	-
	17. Extraocular muscles	1	_
	18. Oral cavity	1	_
	19. Soft palate and palatine tonsil	1	-
	20. Tongue	1	-
	21. Pharynx	2	-
	22. Larynx	2	_
	23. Nose and paranasal air sinuses	2	_
	24. Ear: EAC & middle ear, inner ear	2	_
	25. Eustachian tube	1	_
	26. Eyeball	2	
	27. Common & Internal carotidartery	1	_
	28. External carotid artery	2	_
	29. Vertebral artery	1	1
	30. Internal Jugular vein	1	_



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



31. Systemic histology: Thyroid gland, Pituitary	3	
gland and Tongue		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Торісs	No. of hours	Term
	32. Systemic embryology: Pharyngeal arches: derivatives	1	
	33. Revision	3	
	Total Hours	50 hrs	
9.	CENTRAL NERVOUS SYSTEM: BR	AIN	II
	1. Introduction	1	
	2. Meninges & CSF	1	
	3. Spinal cord	1	
	4. Medulla oblongata	1	
	5. Pons	1	
	6. Cerebellum	1	
	7. Fourth ventricle	1	
	8. Mid-brain	1	
	g. Diencephalon: Thalamus & Hypothalamus	2	
	10. Third Ventricle	1	
	11. Lateral Ventricle	1	
	12. Cerebrum: external features	2	
	13. Functional areas of cerebral cortex	1	
	14. Basal ganglia	1	
	15. White matter of cerebrum: Corpus callosum & Internal capsule	2	
	16. Blood supply of brain	2	
	17. Cranial nerves	6	
	18. Systemic embryology: Development of Brain	2	
	19. Revision	2	
	Total Hours	30	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Total – 325 hrs

PRACTICAL

Sl. No.	Topics	No. of hours	Term
1.	GENERAL HISTOLOGY		I
	Epithelial tissue: Simple & Stratified	4	
	2. Connective tissue: Loose/Areolar & Adipose	2	
	3. Connective tissue: Cartilages	2	
	4. Connective tissue: Compact bone (L.S, T.S) and Spongy bone	2	
	5. Muscle tissue: Skeletal (L.S, T.S), Smooth and Cardiac	2	
	6. Nervous tissue: Peripheral nerve (T.S) & Nerve fibre (L.S)	2	
	7. Skin: Thick & Thin	2	
	8. Lymphoid organs: Lymph node, Spleen, Thymus & Tonsil	4	
	 Blood vessels: Large artery, Medium sized artery & Large vein 	2	
	10. Glands: Serous, Mucous & Mixed	2	
	Total Hours	24	
2.	UPPER EXTREMITY		I
	1. Introduction	2	
	Osteology		
	2. Clavicle	2	
	3. Scapula	2	
	4. Humerus	2	
	5. Radius	2	
	6. Ulna	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



7. Articulated hand	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

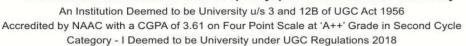
Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Торісs	No. of hours	Term
	8. Surface Markings in upper extremity	2	
	Dissection	I	
	9. Pectoral region	2	
	10. Axilla	2	
	11. Back & Shoulder	2	
	12. Arm: Front & Cubital fossa and Back of the arm	2	
	13. Front of Forearm & palm of hand	4	
	14. Back of Forearm & Dorsum of Hand	2	
	15. Joints of upper extremity	2	
	16. Radiology of upper extremity	2	
	Total Hours	34	
3.	HEAD, NECK & FACE	II	
	1. Introduction	2	
	Osteology		
	2. Skull	6	
	3. Mandible	2	
	4. Hyoid bone	2	
	5. Cervical vertebrae: Typical & Atypical	2	
	6. Surface Markings in head, neck & face.	2	
	Dissection		
	7. Scalp	2	
	8. Face	2	
	9. Posterior triangle of neck	2	
	10. Anterior triangle of neck	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





11. Back of neck	2	
12. Cranial cavity & Contents of vertebral canal	4	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	n@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in Topics	No. of hours	Term
	13. Deep dissection of neck	2	
	14. Orbit & Eyeball	2	
	15. Ear	2	
	16. Parotid region	2	
	17. Temporal & infratemporal region	2	
	18. Sub mandibular region	2	
	19. Mouth, Tongue & Pharynx	2	
	20. Nose & Larynx	2	
	21. Temporo-Mandibular joint & joints of Neck	2	
	22. Radiological anatomy of Head, Neck and Face	2	
	Systemic Histology-		
	23. Thyroid gland (including parathyroid)	2	
	24. Pituitary gland	2	
	25. Revision	2	
	Total Hours	56	
4.	CENTRAL NERVOUS SYSTEM		II
	1. Introduction	2	
	Demonstration		
	2. Parts of the brain	4	
	3. Spinal cord	2	
	4. Ventricles (model)	2	
	5. Radiology of brain	2	
	Systemic Histology	l	
	6. Nervous tissue: Cerebrum & Cerebellum	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



7. Revision	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Topics	No. of hours	Term
	Total Hours	16	
5.	THORAX		II
	1. Introduction	2	
	Osteology		
	2. Sternum. Ribs: Typical & Atypical	2	
	3. Thoracic vertebrae: Typical & Atypical	2	
	Surface Marking	4	
	Dissection		
	4. Anterior Thoracic wall, Intercostal space & contents	2	
	5. Pleura & Lungs	4	
	6. Contents of superior mediastinum & Pericardium	2	
	7. Heart: External features	2	
	8. Interior of Heart with valves of heart	2	
	9. Contents of posterior Mediastinum	2	
	10. Radiological anatomy	2	
	Systemic Histology		
	11. Trachea & Lung	2	
	12. Revision	2	
	Total Hours	30	
6.	LOWER LIMB		Ш
	1. Introduction	2	
	Osteology		
	2. Hip Bone	2	
	3. Femur & Patella	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



4. Tibia	2	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

A Constitution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Topics	No. of hours	Term
5. Fibula	2	
6. Articulated Foot	2	
7. Surface Marking	2	
Dissection		
8. Front of thigh	4	
9. Medial side of thigh	2	
10. Gluteal region	2	
11. Back of thigh & Popliteal fossa	2	
12. Front of Leg & Dorsum of Foot	2	
13. Leg: Medial, Lateral & Back of Leg	4	
14. Sole of Foot	4	
15. Joints of the lower extremity	2	
16. Radiology lower extremity	2	
17. Revision	2	
Total Hours	40	
ABDOMEN & PELVIS		III
1. Introduction	2	
2. Osteology		
3. Lumbar Vertebrae	2	
4. Sacrum and joints	2	
5. Articulated Pelvis: Male & female	2	
6. Surface Marking	4	
Dissection		
7. Anterior abdominal wall	2	
8. External genitalia of Male	2	
	5. Fibula 6. Articulated Foot 7. Surface Marking Dissection 8. Front of thigh 9. Medial side of thigh 10. Gluteal region 11. Back of thigh & Popliteal fossa 12. Front of Leg & Dorsum of Foot 13. Leg: Medial, Lateral & Back of Leg 14. Sole of Foot 15. Joints of the lower extremity 16. Radiology lower extremity 17. Revision Total Hours ABDOMEN & PELVIS 1. Introduction 2. Osteology 3. Lumbar Vertebrae 4. Sacrum and joints 5. Articulated Pelvis: Male & female 6. Surface Marking Dissection 7. Anterior abdominal wall	hours 5. Fibula 2. 6. Articulated Foot 7. Surface Marking 2. Dissection 8. Front of thigh 9. Medial side of thigh 10. Gluteal region 11. Back of thigh & Popliteal fossa 12. Front of Leg & Dorsum of Foot 13. Leg: Medial, Lateral & Back of Leg 14. Sole of Foot 15. Joints of the lower extremity 16. Radiology lower extremity 17. Revision 2 Total Hours 40 ABDOMEN & PELVIS 1. Introduction 2. Osteology 3. Lumbar Vertebrae 4. Sacrum and joints 5. Articulated Pelvis: Male & female 6. Surface Marking Dissection 7. Anterior abdominal wall



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



9. Abdominal cavity: Positions & Relations of	2	
viscera, Peritoneum, Greater & Lesser sac		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sl. No.	Topics	No. of hours	Term
	10. Stomach & Spleen	2	
	11. Small intestine (Jejunum & Ileum) & Large intestine	2	
	12. Duodenum & Pancreas	2	
	13. Liver, Gall bladder & blood vessels of Digestive system	2	
	14. Kidney & Suprarenal gland	2	
	15. Posterior Abdominal wall & Diaphragm	2	
	16. Walls of the pelvis & Pelvic cavity : position & relations of viscera, Perineum	2	
	17. Urinary bladder, Urethra & Prostate	2	
	18. Ovary, Uterus, Fallopian tubes, Vagina	2	
	19. Sigmoid colon, Rectum & Anal canal	2	
	20. Radiological anatomy	2	
	Systemic Histology		
	21. Digestive system: Basic structure of GIT	2	
	22. Digestive system: Liver & Gall bladder, Pancreas	2	
	23. Urinary system: Kidney, Ureter & Suprarenal gland	2	
	24. Male Reproductive system: Testis & Prostate	2	
	25. Female Reproductive system: Ovary & Uterus	2	
	Total Hours	50	
Total Pract	ical hours	250 Hours	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

SI. No	Non-Lecture Teaching Learning methods	Time Allotted per Activity (in Hours)
1.	Seminars/ Workshops	10
2.	Group Discussions	10
3.	Problem based learning	10
4.	Integrated Teaching	15
5.	Case Based Learning	10
6.	Self-directed Learning	15
7-	Tutorials, Assignments and projects	10
	Sub tota	80
8.	Practica	250
	Tota	330

Description of Non-Lecture Activities

Sl. No	Non-Lecture Teaching Learning methods	Time Allotted per Activity (in Hours)	Topics
1.	Seminars/ Workshops	10	Seminars: Guest Seminars, Student Seminars of Fast Learners can be conducted on any topic of Anatomy. E.g.: Shoulder joint, Liver etc. Workshop: Workshop can be arranged on important topics of Anatomy. E.g.:
2.	Group Discussions	10	Abdomen, Thorax, CNS etc. Group discussions can be conducted during practical hours on any topic of Practical and dissection. E.g.: Heart,
3.	Problem based learning	10	Lungs, actions of joints etc. Problem based learning can be conducted on any applied anatomy topic. E.g.: Bell's palsy, Frozen shoulder, Varicose veins etc.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



4.	Integrated	15	A] Horizontal Integration
	Teaching		Physiology: Any topic related to Physiology can be conducted. E.g.: Anatomy: Physiology Seminar on Respiratory System.
			Homoeopathic Subjects: Any topic related to Homoeopathic Materia Medica, Repertory, Organon of Medicine. E.g.:
			a) Integrated lecture with HMM - Homoeopathic drugs related to organs of Abdomen.
			b) Integrated lecture with Repertory – Rubrics related to structures of Thorax.
			c) Integrated lecture with Organon – Miasmatic influence on heredity.
			d) Integrated lecture with Homoeopathic Pharmacy - Action of Homoeopathic drugs on cellular level.
			B] Vertical Integration
			Gynecology – E.g.: Any topic related on female reproductive System.
			Surgery – E.g.: Integrated lecture on radiology.
			Medicine – E.g.: Embryological basis of major congenital anomalies of heart
5.	Case Based Learning	10	Case Based Learning can be conducted on any clinical topic of anatomy by presenting a case scenario with the help of Simulation or Audiovisual aid in the classroom. E.g.: A case of Bell's Palsy for the topic Facial Nerve, A case of Wrist drop for the topic Radial Nerve etc.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

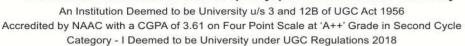
Category - I Deemed to be University under UGC Regulations 2018



6.	Self-Directed	15	Self-Directed Learning can be conducted
	Learning		for any topic of Anatomy. E.g.: Functional



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





			areas of cerebrum, Actions of Facial muscles.
7.	Tutorials, Assignments, Projects	10	Tutorials, Assignments, projects can be conducted on any topic of anatomy at the end of the topic.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

6. TEACHING LEARNING METHODS

General Instructions

- (a) Instructions in anatomy should be so planned as to present a general working knowledge of the structure of the human body both at micro and macro level and should correlate with function. Topics/syllabus should be planned out in parallel with other subjects for better understanding & to achieve integration.
- (b) The amount of detail which a student is required to memorise should be reduced to the minimum but should connect to syllabus of other subjects and applied anatomy.
- (c) Major emphasis should be laid on functional anatomy of the living subject rather than on the static structures of the cadaver and on general anatomical positions and broad relations of the viscera, muscles, blood vessels, nerves and lymphatics and study of the cadaver is the only means to achieve this.
- (d) Students should know the basic applied anatomy & should not be burdened with minute anatomical details which have no clinical significance.
- (e) Only such details which have professional or general educational value for the Homoeopathic medical students need to be focused.
- (f) Normal radiological anatomy may also form part of practical or clinical training and the structure of the body should be presented linking functional aspects.
- (g) A good part of theoretical lectures on anatomy can be transferred to tutorial classes with the demonstrations/ Projection / Dissection.
- (h) Case based learning should be conducted for the students on various clinical conditions with the help of case scenario, simulation or Audiovisual aids as a Non-Lecture activity.
- (i) Seminars and group discussions to be arranged periodically with view of presenting these subjects in an integrated manner.
- (j) More stress on demonstrations and tutorials should be given. Emphasis should be laid on the general anatomical positions and broad relations of the viscera, muscles, blood vessels, nerves and lymphatics.
- (k) There should be joint seminars with the departments of Physiology and Biochemistry, Repertory, HMM, Philosophy and Pharmacy which should be organized wherever necessary as per the topic.
- (l) There should be a close correlation in the teaching of gross Anatomy, Histology, Embryology and Genetics and the teaching of Anatomy, Physiology including Biochemistry along with Homoeopathic subjects shall be integrated.

Though dissection of the entire body is essential for the preparation of the student for his clinical studies, the burden of dissection can be reduced and much saving of time can be affected with considerable reduction of the number of topographical details while following the above points. The purpose of dissection is to give the student an understanding of the



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

body-Structure from Macro to Micro correlate to its function- Functional anatomy to integrate with Physiology and the dissection should be designed to achieve this goal.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Dissection should be preceded by a course of lectures on the general structure of the organ or the system under discussion and then its function. In this way anatomical and physiological knowledge can be presented to students in an integrated form and the instruction of the whole course of anatomy and physiology made interesting, lively practical or clinical. Syllabus of all the subjects of First BHMS course should be structured to run parallel, horizontally & vertically as far as possible to achieve maximum integration.

Students should be able to identify anatomical specimens and structures displayed in the dissection. Teaching and Demonstration methods should be supported with latest software/Practical/Charts/slides/Working or 3D Diagrams, Audio-Visual/ Multimedia presentation/Simulation to train clinical application.

The Teaching Learning activities in Anatomy requires change in structure & process in order to be more skill based & providing hands on experience.

The Teaching Learning methods with respect to Anatomy may be covered in the following manner:

- a. Class Room Lectures Oral Presentation, Board Work, Power point Presentation.
 Tutorials on the topics covered.
- b. Assignments For Slow Learners
- c. Practical Class Demonstration, Dissection, Surface Marking, Histology, Radiology
- d. **Student Activities** Working out the Assignments, Projects, PowerPoint presentations as assigned
- e. Case based Learning & Problem Based Learning (CBL & PBL) for students to understand the application of knowledge of Anatomy with Clinical subjects.
- f. DOAP (Demonstration Observation Assistance Performance) For Clinical Anatomy.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

7. CONTENT MAPPING (COMPETENCY TABLE)

- General Anatomy
- 2. Developmental anatomy (Embryology)
- 3. Regional anatomy (Upper and Lower Extremities, Thorax, Abdomen, Pelvis & Perineum, Head, Neck & Face and Brain)

Each of the region will be studied under the following headings

- (a) Osteology
- (b) Syndesmology and Arthrology (Joints)
- (c) Myology
- (d) Angiology
- (e) Neurology
- (f) Splanchnology (Viscera/Organ)
- (g) Histology
- (h) Surface anatomy
- (i) Applied anatomy
- (j) Radiographic anatomy
- (k) Correlation with homoeopathic subjects

Semester - I

1. Topic: General Anatomy

Learning Outcomes (LO): At the end of general anatomy, I-BHMS student must;

- 1. Describe the structure of a cell, its components and their function.
- 2. Recall the terminologies used in Anatomy.
- 3. Classify bones, muscles, joints and nerves
- 4. Mention the homoeopathy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



5. hic drugs indicated for particular tissue/organ involvement.

6. Practice Ethics related to

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

the learning of Anatomy.

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative	Integration Horizontal (H) / Vertical(V)
Hom UG- AN- 1.1	ار Integration of Information	Anatomy	К	Concept of cell as structural and functional unit of the body	 Mention their functions of cell organelle 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.2	Problem formulation/ Integration Knowledge/	General A	К	Understanding of the four basic tissues that make up organs and systems	 Describe the structure and location Mention the characteristics Function of each of the basic tissues 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom			Understand	1.	Describe the structure of DNA and		Level 1	1.	DK	Lecture	MCQ,	MCQ,	Physiology
UG-			role of DNA in		RNA	Cognitiv	(Remem	2.	DK		SAQ.	SAQ.	(H)
AN-			carrying the	2.	List the functions of DNA and RNA	е	ber/			Group		Min	Mardiaina () ()
1.3. i		K	genetic code				recall)			discussion		Viva	Medicine (V)
			and RNA in									Voce	
			gene										
			expression										
	1												

SI. No.	Generic Competency	Subject Area	Millers: K/KH/SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 1.3. ii	Problem formulation/ Integration of Knowledge/ Information gathering/Practical	Anatomy	К	Describe the role of chromosomes in transfer or genetic material & role in cell division	 Definition and number Karyotyping Barr body Chromosomal abnormalities 	Cognitive	Level 1 (Remem ber/ recall)	 MK DK NK DK 	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
Hom UG- AN- 1.3. iii	Problem formulation/ Int Knowledge/ Information gathering/Practical	General A	K	Explain the concept of Gene as unit of inheritance	 Definition Functions Types and location 	Cognitive	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		KH		1.	Definition	Cognitive	Level 2	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-			Describe the	2.	Define autosomal		(Remem	2.	DK		SAQ.	SAQ.	(H)
AN-			types of inheritance and		inheritance		ber/		5.11			Viva	Medicine (V)
1.3. i	v		their role in	3.	Define sex linked inheritance		recall)	3.	DK			Voce	iviedicine (v)
			hereditary diseases	4.	Define mitochondrial inheritance			4.	NK				

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 1.3. V	Problem formulation/ Integration of	General Anatomy	КН	Describe the genetic basis of diseases	 Mention the types of genetic abnormalities Describe the genetic basis of Down's syndrome Explain miasmatic influence on heredity 	Cognitive	Level 2 (underst and/inter pret)	1. DK 2. DK 3. NK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V) Organon (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 1.4.i		К	Definition and subdivisions of anatomy	 Definition of anatomy List the subdivisions of anatomy Recall the methods of study in each sub division of anatomy 	Cognitive	Level 1 (Remem ber)	1. 2. 3. 4.	MK DK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-
Hom UG- AN- 1.4. ii		К	History of Anatomy	 Recall the evolution of anatomy as a science Enumerate the major contributors and their work 	Cognitive	Level 1 (Remem ber)	1. 2.	NK NK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 1.4.iii	Problem formulation/ Integration of	General Anatomy	К & КН	Anatomical Terms of position & movement	 Define anatomical terms of position and movement Apply the anatomical terms Demonstrate the movements 	Cognitiv e & Psychom otor	Level 1 (Remember) & Level 2 (understand)	 MK MK MK MK 	Lecture Demonstration Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level		Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 1.4. V			К & КН	Muscles	 Classify muscles Classify skeletal muscles based on fascicular architecture and their blood and nerve supply Explain the actions of skeletal muscles 	Cognitiv e	Level 1 (Remember) & Level 2 (understand)	1. 2.	MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.4.iv			К	Skin, Superficial and Deep fasciae	 Describe the structure, appendages of skin Mention the functions of skin Describe superficial fascia and its distribution Describe deep fascia and its functions 	Cognitiv e	Level 1 (Remember)	1. 2. 3. 4.	MK MK DK MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hor			K		1. Describe the structure	Cognitiv	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		Ę	&		and functions of bones	е	(Remember)				SAQ.	SAQ.	(H)
AN-	, Jc	ato	KH	Bones	2. Classify bones		&	2.	MK			Viva	
14.\	on/	An		Bolles	3. Describe the parts of		Level 2	3.	MK			Voce	
'	ım lati	<u>_</u>			growing long bone		(understand)						
	ble nul	sue			4. Explain the blood supply			4.	DK				
	Pro fori	Ğ			of long bone								
14.\	roblem rmulati tegratic				growing long bone 4. Explain the blood supply			4.					Voce



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 1.4. viii			К	Blood vessels	 Describe the types of blood vessels Explain anastomosis & arteriovenous anastomosis Describe the types of blood circulation Describe foetal circulation 	Cognitiv e	Level 1 (Remember) & Level 2 (understand)	 MK MK MK MK DK 	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.4.vii			К	Joints	 Define joints Classify joints Describe the structure of synovial joint Classify synovial joints Mention the blood and nerve supply of joints 	Cognitiv e	Level 1 (Remember)	1. MK 2. MK 3. MK 4. DK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom UG- AN- 14. ix	vledge/ Information nagement/synthesis		K	Lymphatic system	 Define the lymphatic system and mention its functions Enumerate the components of lymphatic systems Define mucosa associated lymphatic tissue and bronchus associated lymphatic tissue 	Cognitiv e	Level 1 (Remember)	2.	MK MK MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.4X	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	General Anatomy	К & КН	Nerves	 Classify nervous system Describe neuron & neuroglia Describe the formation of typical spinal nerve Differentiate sympathetic and parasympathetic nervous systems 	Cognitiv e	Level 1 (Remember) & Level 2 (understand)	1. 2. 3. 4.	MK MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.4. xi	Problem formulatio gathering/Practical		K & KH	Glands	 Define a gland Describe exocrine and endocrine glands Classify exocrine glands Classify endocrine glands 	Cognitiv e	Level 1 (Remember) & Level 2 (understand)	1. 2. 3. 4.	MK MK DK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 1.5			К	Cell, Tissues, organs, Organ System	Describe the action of Homoeopathic drugs on cellular level.	Cognitiv e	Level 1 (Remember/ recall)	Nk		Integrate d lecture	Viva Voce	-	Pharmacy , Homoeopat hic Materia Medica (H),

2. Topic: Developmental Anatomy (Embryology)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Learning Outcomes (LO): At the end of embryology, I-BHMS student should be able

to;



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- 2. Explain the structural organization of man from micro to macro and its evolution from embryo.
- 3. Explain the evolution of different organs and systems from the embryo.
- 4. Enumerate the homoeopathic drugs indicated for particular genetic or developmental defect.

1. Describe evolution of life on earth and the developmental anatomy and genetics.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level		Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 2.1	of Knowledge/ Information tion management/synthesis		КН % К	Introduction to embryology	 Define embryology Enumerate the parts of male and female reproductive systems Correlate meiosis with gametogenesis Describe menstrual cycle 	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	 1. 2. 3. 4. 	MK MK DK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Obstetrics and Gynecology (V)
Hom UG- AN- 2.2	egration of Knowlec /Information manag	Embryology	KH % K	Spermatogenesi s	 Define spermatogenesis Describe the process of spermatogenesis Describe spermiogenesis Describe the structure of spermatozoon 	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	1. 2. 3. 4.	MK MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 2.3	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	ш	К & КН	Oogenesis	 Define Oogenesis Describe the process of oogenesis Describe formation of graafian follicle Compare spermatogenesis and oogenesis 	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	1. 2. 3.	MK MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Obstetrics and Gynecology (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 2.4 & 2.5	dge/	Е	K KH	Fertilization	 Define fertilization Describe the process of fertilization Describe the process of cleavage and formation of blastocyst Explain the clinical correlation with IVF 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. MK 3. MK 4. NK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 2.6	Problem formulation/ Integration of Knowledge/		К	Formation of bilaminar germ disc	 Describe the formation of amniotic cavity and yolk sac Describe the formation of bilaminar germ disc Describe the formation of extraembryonic mesoderm Define chorion and amnion 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. MK 3. MK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		K		1.	Define Gastrulation	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-				2.	Describe the formation of		(Remember)	2.	MK		SAQ.	SAQ.	(H)
AN-					prochordal plate			3.	MK			Viva	
2.7			Ctlt	3.	Describe the formation of							Voce	
			Gastrulation		primitive streak			4.	DK				
				4.	Describe the formation of germ								
					layers								
				5.	Mention derivatives of each germ			5.	DK				
					layer								



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level		Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 2.8	formulation/Integration of ge/Information g/Practical Skills/Information ment/synthesis	logy	К	Intra embryonic mesoderm and formation of somites	 Describe the parts of intra embryonic mesoderm Describe the formation of somites and their derivatives Define Sclerotome, myotome and dermatome 	Cognitive	Level 1 (Remem ber)	2. N	NK NK NK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 2.9	Problem formulation/Integration of Knowledge/Information gathering/Practical Skills/Information management/synthesis	Embryology	К	Ossification	 Define ossification Mention the types of ossification Describe intramembranous ossification Describe endochondral ossification 	Cognitive	Level 1 (Remem ber)	2. N 3. D	NK NK DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 2.10			К	Notochord	 Describe the formation of notochord Mention the function and fate of notochord Describe the formation of neural tube 	Cognitive	Level 1 (Remem ber)	2. N	AK AK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 2.11	Integration of ion	19	К	Folding of the embryonic disc and formation of primitive gut tube	 Explain the sagittal folding of embryo Explain the transverse folding of embryo Describe the parts of primitive gut tube 	Cognitive	Level 1 (Remem ber)	 MK MK MK 	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-
Hom UG- AN- 2.12	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Embryology	K	Placenta	 Define amnion and chorion Define decidua Describe the formation of placenta Mention the functions of placenta 	Cognitive	Level 1 (Remem ber)	 DK DK MK DK 	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	-
Hom UG- AN- 2.13			К	Stages of development	 Describe the Development of embryo and layers of suppression. Enumerate the homoeopathic drugs indicated for particular genetic or developmental defect 	Cognitive	Level 1 (Remem ber/ recall)	1. NK	Integrate d lecture	Viva Voce	-	Organon (H), Homoeopat hic Materia Medica (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. Topic: General Histology

Learning Outcomes (LO): At the end of

embryology, I-BHMS student should be able to;

- 1. Describe microscopic structure of the basic tissues and clinically relevant structures.
- 2. Correlate the histological features with their functions.
- 3. Explain the possible changes in cells, tissues and organs due to injury or disease.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 3.1	dge/ Information Jement/synthesis		К & КН	Introduc tion to histolog y		Cognitive	Level 1 (Remember) & Level 2 (understand)	1. M K 2. M K 3. M K	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 3.2	Problem formulation/Integration of Knowledge/Information gathering/Practical Skills/Information management/synthesis	Histology	К	Epithelia I tissue	3. Classify epitnelia	Cognitive	Level 1 (Remember)	1. M K 2. M K 3. M K	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 3·3	Problem formulation gathering/Practical S.		К & КН	Connecti ve tissue	3. Classify connective tissue	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. M K 2. M 3. M K	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 3·4	Problem formulation/Integration of Knowledge/Information gathering/Practical Skills/Information management/synthesis	Histology	К	Cartilag e	 Classify cartilages Describe the microscopic structure of hyaline cartilage Describe the microscopic structure of fibro cartilage Describe the microscopic structure of elastic cartilage 	Cognitive	Level 1 (Remember)	1. M K 2. M K 3. M K	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 3·5	Problem formulation/Integration of K. gathering/Practical Skills/Information management/synthesis		К	Bone	 Describe haversian system Describe the microscopic structure of L S and T S of compact bone Describe the microscopic structure of spongy bone 	Cognitive	Level 1 (Remember)	1. M K 2. M K 3. M K	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Classify muscle tissue	Cognitive	Level 1	1.	М	Lecture	MCQ,	MCQ,	Physiology
UG-				2.	Describe the microscopic structure		(Remember)		K		SAQ.	SAQ.	(H)
AN-					of L S and T S of skeletal muscle			2.	М			Viva	
3.6				3.	Describe the microscopic structure				K			Voce	
					of smooth muscle								
		K	Muscle	4.	Describe the microscopic structure			3.	М				
					of cardiac muscle				K				
								4.	М				
									K				

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 3-7	Problem formulation	Histology	К	Nervous tissue	 Describe nerve Describe T S of peripheral nerve Describe L S of peripheral nerve 	Cognitive	Level 1 (Remem ber)	1. MK 2. MK 3. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 3.8	К	Skin	 Describe microscopic structure of thin skin Describe microscopic structure of thick skin Describe appendages of skin 	Cognitive	Level 1 (Remem ber)	1. 2. 3.	MK MK MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 3·9	К	Lymphoid organs	 Mention lymphoid organs Describe the microscopic structure of lymph node, Describe the microscopic structure of tonsil Describe the microscopic structure of thymus Describe the microscopic structure of spleen 	Cognitive	Level 1 (Remem ber)	1. 2. 3. 4.	MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)

SI. No.	Generic Competency Subject Area	rs: I/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
---------	------------------------------------	----------------	---------------------	---	----------------	-------------------	--	-----------------------------------	----------------------	----------------------	------------------------------------



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom			К	Blood vessels	_	Classify blood vessels	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-					2.	Describe the microscopic		(Remem	2.	MK		SAQ.	SAQ.	(H)
AN-	ge/ atio					structure of large artery		ber)						
3.10	of Knowledge/ kills/Informatio				3.	Describe the histology of			3.	MK			Viva	
	ow Ifoi					medium sized artery							Voce	
	Kn Is/Ir				4.	Describe the microscopic								
						structure of large vein			4.	MK				
11	$\sigma \circ$	gy	1/	Clarada		Classify along de bossed and	Camaitina	I accel		MALC	1	MCO	MCO	Dharaialaan
Hom	ite Yra	Histology	K	Glands	1.	Classify glands based on	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG- AN-	ion/ Ir ring/F thesis	list				type of secretion Describe the microscopic		(Remem ber)		MK		SAQ.	SAQ.	(H)
	mulation/ gathering it/synthes	工			2.	structure of serous gland		Del)	2.	IVIIX			Viva	
3.11	iulati athe /synt				٦	Describe the microscopic							Voce	
	ırm n ga				3.	structure of mucous gland			_	MK			VOCE	
	m for ation Jemer				4.	Describe the microscopic			3.	IVIIX				
	len ma age				4.	structure of mixed gland			,	MK				
	Problem formulation/ Ir Information gathering/F management/synthesis					stroctore or mixed gland			4.	IVIIX				
	<u> </u>													

4. Topic: Upper Extremities

Learning Outcomes (LO): At the end of Upper Extremities, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the upper extremities, their blood supply and applied anatomy.
- 2. Describe anatomy of the joints of the upper extremities, their blood supply, action and applied anatomy.
- 3. Describe the muscles of the upper extremities, their origin, insertion, nerve supply, action and applied anatomy.

65



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. Explain anatomy of the vessels and nerves of the upper extremities, their course, muscles they supply, relations and applied anatomy.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



- 5. Describe the anatomy of mammary gland with its applied anatomy.
 - 6. Describe the anatomy of axilla.
- 7. Enumerate homoeopathic drugs and rubrics indicated for particular involvement of bones, muscles, joints, nerves, blood vessels.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
HomUG- AN-4.2, 4.6, 4.9, 4.10, 4.18 and 4.19	gration of Knowledge/ actical Skills/ Information	U	К & КН	Anatomic al features of Pectoral region and axilla Back and Intermuscular spaces around scapula Arm and cubital fossa Fore arm Flexor and extensor retinacula Palmar aponeurosis and spaces in palmar spaces	 Describe the contents of the regions of upper extremity Recall the attachments, nerve supply and actions of the muscles in the regions Describe the main joint, blood vessels and nerves in the region. Identify the surface land marks in the region for surface marking 	Cogniti ve	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK	Lectu re	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
HomUG- AN-4.4, 4.5 4.9 to 4. 12 & 4.20	Problem formulation/Integration Information gathering/Practical SI management/synthesis		K	Main blood vessels of the upper limb: Axillary artery, brachial artery Radial artery and ulnar artery and superficial veins of upper extremity	 Describe the origin, extent, parts, branches and distribution of main arteries Describe superficial and deep palmar arches Describe the venous drainage of upper extremity Describe their applied anatomy 		Level 1 (Remem ber/ recall)	5. MK 1. MK 2. MK 3. MK	Lectu re	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



HomUG-			Describe the Anatomy of	1.	Describe the formation, course	Cogniti	Level 1	1.	MK	Lectu	MCQ,	MCQ,	Physiology
AN-4.8,			nerves of Upper extremity		and relations of main nerves of the	ve	(Remem	2.	MK	re	SAQ.	SAQ.	(H)
4.10,			Median nerve, Ulnar		upper extremity		ber/	3.	DK			LAQ	
4.13 to		K	nerve, Radial nerve,	2.	Mention their branches and their		recall)					Viva	Medicine
4.15			Musculocutaneous nerve		distribution							Voce	(V)
			and Axillary nerve	3.	Describe the applied anatomy								
													Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
HomUG -AN-4.4	egration of Knowledge/ actical Skills/ Information	Extremity	К	Describe the anatomy of Brachial plexus	 Define nerve plexus Enumerate the root value of Brachial plexus Mention the stages of formation of Brachial plexus Name the branches of Brachial plexus Enlist the deformities due to injuries to Brachial plexus 	Cognitive	Level 1 (Remember/ recall)	1. M K 2. M K 3. M K 4. M K 5. DK	Lectur e	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiolog y H)
HomUG -AN-4.3	Problem formulation/Integration of Knowledge/ Information gathering/Practical Skills/Information	Upper Extre	К	Describe the anatomy of Breast (Mammary gland)	 Define location & extent of breast Describe structure of breast Describe the relations, blood supply and nerve supply Explain the lymphatic drainage of breast Describe applied anatomy of breast 	Cognitive	Level 1 (Remember/ recall)	1. M K 2. M K 3. M K 4. M K 5. DK	Lectur e	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

HomUG Describe the 1. Enumerate the joints of upper Cognitive Level 1 1. M Lectur MCQ,	MCQ, Surgery
-AN-4.7, Anatomy of extremity (Remember/ K e SAQ.	SAQ. (V)
4.16 joints of 2. Describe the articulating surfaces, recall) 2. M	LAQ
84.17 Upper ligaments, blood and nerve supply K	Viva
extremity of joints of upper extremity 3. M	Voce
K Shoulder, 3. Describe the movements of joints K	
Elbow, upper extremity 4. DK	
Radio-ulnar 4. Describe the applied anatomy of	
and wrist joints of upper extremity	
joints	
HomUG Structures 1. Enumerate the homoeopathic Cognitive Level 1 NK Integra Viva	Homoeop
-AN- of upper drugs related to structures of (Remember/ ted voce	athic
4.18 extremity upper extremity. recall) Lectur	Materia
K 2. Enumerate the rubrics related to e	Medica
structures of upper extremity.	(H),
	Repertory
	(H).

5. Topic: Lower Extremity

Learning Outcomes (LO): At the end of Lower Extremities, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the lower extremities, their blood supply, and applied anatomy.
- 2. Describe the anatomy of the joints of the lower extremities, their blood supply, action and applied anatomy.
- 3. Describe the anatomy of the muscles of the lower extremities, their origin, insertion, nerve supply, action and applied anatomy.
- 4. Describe the anatomy of the vessels and nerves of the lower extremities, their course, muscles they supply, relations and applied anatomy.
- 5. Enumerate the homoeopathic drugs indicated for particular involvement of bones, muscles, joints, nerves, blood vessels.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr. No	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency		Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level		Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
HomU(AN-5.3 to 5.6, 5.8, 5.10 To 5.14	of Knowledge/ kills/ Informatior		К & КН	Front of the thigh, Femoral triangle, Medial side of thigh, Gluteal region, Back of the thigh and popliteal fossa, Front of the thigh and dorsum of the foot, Back & side of the leg, retinacula and sole of the foot	1. 2. 3. 4.	Describe Contents of the regions of lower extremity Recall the attachments, nerve supply and actions of the muscles in the regions Describe the main joint, blood vessels and nerves in the region. Identify the surface land marks in the region for surface marking	Cogniti ve	Level 1 (Remem ber/ recall)	1. 2. 3. 4.	MK MK MK MK	Lectu re	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
HomU(AN-5.4 5.8 5.10 to 5.11, 5.1 & 5.18	nulation/ I gathering/	Г	К	Main blood vessels of the upper extremity: Femoral artery, Popliteal artery, Anterior tibial & Posterior tibial and Dorsalis pedis artery	 2. 3. 4. 	Describe the origin, extent, parts, branches and distribution of main arteries Describe superficial and deep plantar arches Describe the venous drainage of lower extremity Describe their applied anatomy		Level 1 (Remem ber/ recall)	1. 2. 3. 4.	MK MK MK MK	Lectu re	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



HomUG-			Describe morphology	1.	Describe the formation, course	Cogniti	Level 1	1.	MK	Lectu	MCQ,	MCQ,	Physiology
AN-5.2,			nerves of lower extremity		and relations of main nerves of the	ve	(Remem	2.	MK	re	SAQ.	SAQ.	(H)
5.5.5.7.		17	Femoral, obturator,		lower extremity		ber/	3.	DK			LAQ	Medicine
5.10 to		K	Sciatic, common peroneal	2.	Mention their branches and their		recall)					Viva	(V)
5.12,			and Tibial nerves		distribution							Voce	Surgery (V)
5.14				3.	Describe the applied anatomy								



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG-AN- 5.2 & 5.7	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/ Information management/ synthesis	emity	К	Describe the anatomy of Lumbar & Sacral plexuses	 Define nerve plexus Enumerate the root value of the plexuses Describe the formation of the plexuses Name the branches of sacral and lumbar plexus Enlist the deformities due to injuries to lumbar & sacral plexuses 	Cognitive	Level 1 (Remember/ recall)	1. M K 2. M K 3. M K 4. M K 5. DK	Lectur e	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiolog y H)
HomUG- AN-5.9, 5.15 to 5.17	Problem formulation/ Integration Information gathering/Practical Ski management/ synthe	Lower Extremity	К	Describe the Anatomy of joints of Lower extremity Hip, Knee and Ankle Arches of the foot	 Describe the articulating surfaces, ligaments, blood and nerve supply of joints of lower extremity Describe the movements of joints lower extremity Describe the applied anatomy of joints of lower extremity Describe the formation of arches of foot Describe the applied anatomy 	Cognitive	Level 1 (Remember/ recall)	1. M K 2. M K 3. M K 4. DK	Lectur e	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom			Structures	1. Enumerate the homoeopathic	Cognitive	Level 1	NK	Integra	Viva	Homoeop
UG-AN-			of lower	drugs related to structures of		(Remember/		ted	voce	athic
5.18			extremity	lower extremity.		recall)		Lectur		Materia
		K		2. Enumerate the rubrics related to				e		Medica
				structures of lower extremity.						(H) ,
										Repertory
										(H).



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



6. Topic: Thorax

Learning Outcomes (LO): At the end of

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Thorax, I-BHMS student should be able to;

- 1. Describe the parts of Respiratory and Cardiovascular system with their applied anatomy.
- 2. Enumerate the homoeopathic drugs and rubrics related to thorax.

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 6.1 & 6.2	on/ Integration of Information	Thorax	К	Introduction & Trachea	 Describe the Boundaries and content of thoracic cage Describe the morphology of trachea Mention the Blood supply and nerve supply Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. DK 3. DK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 6.3	Problem formulation/ Knowledge/	Тh	К	Pleura	 Define pleura Mention the layers Describe the parts of parietal pleura Mention its blood and nerve supply Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK 5. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Describe the external features of	Cognitiv	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-					the lung	е	(Remem	2.	DK	C	SAQ.	SAQ.	(H)
AN-				2.	Compare the features of right and		ber/	3.	DK	Group discussion		LAQ	Medicine (V)
6.4		K	Lungs		left lungs		recall)	4.	MK	uiscussion		Viva	iviedicine (v)
		K	Longs	3.	State the blood supply and nerve							Voce	
					supply								
				4.	Explain the broncho-pulmonary								
					segments and their applied aspect								
													1



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 6.5	dge/ Information t/synthesis		К	Mediastinum	 Define mediastinum Describe the boundaries of mediastinum Mention the contents of each mediastinum Describe its applied aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H)
Hom UG- AN- 6.6	Integration of Knowledge/ Info Information management/synthesis	Thorax	К	Pericardium and Heart	 4. Describe the morphology of the pericardium 5. Describe the external features of the heart 6. Describe the internal features of the chambers of heart 7. Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	4. MK 5. MK 6. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ Viva Voce	Physiology (H)
Hom UG- AN- 6.7	Problem formulation/ Integration gathering/Practical Skills/Information		К	Blood supply of heart	 Mention the arteries and veins supplying the heart Describe the course and distribution of right and left coronary arteries Describe the course and drainage of coronary sinus Describe the applied aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ LAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 6.8	of Knowledge/ Skills/Information		К	Superior mediastinum: Arch of aorta	 Describe the extent, course, convexities of arch of aorta Mention the relations Name the branches Describe the applied aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	 MK MK MK MK MK 	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 6.9	u	Thorax	К	Superior mediastinum: Superior Vena cava	 Describe the formation of SVC Describe its course and relations Name the tributaries Describe it applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 6.10	Problem formulation/ Integration Information gathering/Practical	T	К	Posterior mediastinum: Azygous vein & Thoracic duct	 Describe the origin, course and tributaries of azygos vein Mention the relations Describe the origin, course and tributaries of thoracic duct Mention the relations of thoracic duct Describe their applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. DK 4. DK 5. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D)	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) / Vertical(V)
Hom UG- AN- 6.11	Integration of Knowledge/ Practical Skills/Information	Thorax	К	Posterior mediastinum: Oesophagus & Descending thoracic aorta	 Describe the morphology and relations of the oesophagus Mention constrictions in its course Mention the blood supply and nerve supply Describe the extent, branches and relations of descending thoracic aorta Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 6.12	Problem formulation/ Integration Integration Information gathering/Practical management/synthesis	The	К	Diaphragm	 Describe the attachments, nerve supply and actions of diaphragm Mention the major openings in the diaphragm and structures passing through it. Describe the nerve and blood supply Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK 5. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 6.13			K	Systemic embryology: Development of Heart and lung	 Describe the formation of primitive heart tube Describe the formation of the atria and ventricles of the heart Explain the embryological basis of major congenital anomalies of heart Describe formation of lung 	Cognitiv e	Level 1 (Remem ber/ recall)	6. DK 7. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D)	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 6.14	Problem formulation/Integration of Knowledge/Information gathering/Practical	Thorax	К	Systemic histology: Trachea and Lung	 Describe the microscopic structure of trachea and lung Correlate with their functions Explain the applied aspect and correlate with histopathology 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Pathology (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom				1. Enumerate the homoeopathic	Cognitiv	Level 1	NK	Integrated	Viva	-	Homoeopat
UG-				drugs related to thorax.	e	(Remem		lecture	Voce		hic Materia
AN-				2. Enumerate the rubrics related to		ber/					Medica (H),
6.15				thorax.		recall)					Repertory.
5											(H)
		V	Structures of								
		K	Thorax.								

7.Topic: Abdomen

Learning Outcomes (LO): At the end of Abdomen, I-BHMS student should be able to;

- 1. Describe the anatomy of the abdomen and pelvic organs with their applied anatomy.
- 2. Enumerate the homoeopathic drugs and rubrics indicated for involvement of the abdominal and pelvic organs.

SI. No.	Generic Competency Subject Area	Millers: K/KH/ SH/D Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
---------	------------------------------------	---	---	----------------	------------------	--	-----------------------------------	----------------------	----------------------	------------------------------------



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	principalonini	onwound	ilacepviaya	pectification,	ino@sumandeepvidyapeethdu.edu.in we			CCLIII	12	ı		1	
Hom UG-					 Describe the regions of abdominal cavity 	Cognitive	Level 1 (Remem	1.	MK	Lecture	MCQ, SAQ.	MCQ, SAQ.	Physiology (H)
AN-					2. Name the contents of		ber	2.	MK			Viva	
7.1			K	Introduction	abdominal cavity and pelvic							Voce	
					cavity								
	on ssis				3. Describe perineum			3.	DK				
	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis							٥.					
Hom	ıfor t/sy				Describe the muscles of	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Surgery (V)
UG-	lr/lr	Ε			anterior abdominal wall and	J	(Remem				SAQ.	SAQ	
AN-	dge yen	erineum	K	Anterior	their actions		ber)	2.	MK			Viva	
7.2	wle. na <u>c</u>	erir	&	abdominal			&					Voce	
	nov ma	& P	KH	wall	contents of inguinal canal		Level 2	3.					
	on on				3. Explain the applied anatomy		(underst	4.	DK				
	on c nati	Pelvis			of inguinal canal		and)						
Hom	rati	Abdomen,	K		1. Define peritoneum	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Surgery (V)
UG-	teg s/In	om	&		2. Describe greater sac, lesser		(Remem	2.	MK		SAQ.	SAQ	
AN-	/ In Kill	ρq\	KH		sac and epiploic foramen		ber)					Viva	
7.3	ion al S	4			3. Describe the folds of		&	3.	MK			Voce	
	Jat Stic			Peritoneum	peritoneum		Level 2						
	rmı				4. Describe recto-uterine pouch		(underst	4.	MK				
	fo ng/F				and hepatorenal pouch		and)						
	len erir				Define mesoappendix, transverse mesocolon and			_	DI				
	Problem formulation/ Integration gathering/Practical Skills/Informa				sigmoid mesocolon			5.	DK				
	P Q				3.g								



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	-							T				
SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 7-4	/ Information ent/synthesis			Stomach	 Describe the morphology of stomach Describe the relations of stomach Describe the interior of stomach Describe the blood and nerve supply of stomach Explain the applied anatomy of stomach 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. MK 4. MK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Surgery (V)
rHom UG- AN- 7·5	egration of Knowledge, /Information managem	nen, Pelvis & Perineum	К & КН	Liver	 Describe the morphology of liver Describe the ligaments of liver through porta hepatis Describe the blood and nerve supply of liver Explain the applied anatomy of liver 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. MK 4. DK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 7.6	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Abdomen,	К & КН	Extra hepatic biliary apparatus	 Mention the parts of extra hepatic biliary apparatus Describe the morphology of gall bladder and its interior Describe the blood and nerve supply of gall bladder Describe the formation of bile duct Describe the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. MK 4. DK 5. MK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Physiology (H) Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 7-7	Knowledge/ s/Information	n	KH % H	Spleen	 Describe the morphology of spleen Describe the ligaments of spleen Describe the functions of spleen and its applied anatomy 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. NK 3. DK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 7.8	itegration of Practical Skill	en, Pelvis & Perineum	К & КН	Duodenum	 Describe the morphology of duodenum Describe interior of duodenum Describe the blood and nerve supply of duodenum Describe the applied anatomy 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. NK 3. DK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 7-9	Problem formulation/ Ir Information gathering/F management/synthesis	Abdomen,	К & КН	Pancreas	 Describe the morphology of pancreas Describe duct system of pancreas Describe the blood and nerve supply and applied anatomy 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. NK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 7.10	ge/Information :ment/synthesis		KH K & X	Jejunum, lleum and Superior mesenteric artery	 Mention the characteristics of small intestine State the differences between jejunum and ileum Describe the origin, branches and distribution of superior mesenteric artery 	Cognitiv e	Level 1 (Remember) & & Level 2 (understand)	1. MK 2. NK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 7.11	egration of Knowled Information manage	n, Pelvis & Perineum	K & KH	Caecum and appendix	 Mention the morphology of caecum and vermiform appendix Describe their relations, blood and nerve supply Describe the applied anatomy 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. NK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.12	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Abdomen,	KH KH	Large intestine	 Mention the parts of large intestine Mention the characteristics of large intestine Mention the differences between large and small intestines Describe the applied anatomy 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. DK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.13	ation of Knowledge/ ical nent/synthesis	Perineum	K & KH	Portal venous system	 Define portal vein Describe its formation, course and relations Mention the tributaries Mention the sites of portacaval anastomosis and its applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. DK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.14	Problem formulation/Integration of Know Information gathering/Practical Skills/Information management/synthesis	Abdomen, Pelvis & Pe	К & КН	Kidney	 Describe the morphology of kidney Mention the relations of the kidneys Describe the structure of kidney in coronal section Describe the blood supply of kidneys Explain the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. DK 4. DK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		K		1.	Describe the morphology of	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		&			supra renal glands		(Remem	2.	DK		SAQ.	SAQ	(H)
AN-		KH	Supra renal	2.	Mention their relations		ber)	3.	DK				Surgery (V)
7.15			glands	3.	Mention the functions		&	4.	DK			Viva	
			giarius	4.	Describe the blood supply of		Level 2	5.	DK			Voce	
					supra renal glands		(underst						
				5.	Explain the applied anatomy		and)						



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.16	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Pelvis & Perineum	KH &	Abdominal aorta	 Describe the origin and extent of abdominal aorta Mention the relations Name the branches Describe the course and distribution of coeliac trunk Describe the course and distribution of coeliac trunk 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	 MK DK MK DK DK 	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.17	Problem formulation/ Integration Information gathering/Practical SI management/synthesis	Abdomen,	K & KH	Posterior abdominal wall and Inferior vena cava	 Name the structures in the posterior abdominal wall Describe the origin, course relations and tributaries of inferior vena cava Describe the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. DK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 7.18			K U	rinary ladder	 Describe the morphology of urinary bladder Describe the relations of urinary bladder Describe the ligaments of urinary bladder Describe the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. DK DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)
SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/Vertical
Hom UG- AN- 7.19	formulation/ Integration of ge/ Information g/Practical Skills/Information nent/synthesis	א Perineum	К & КН	Ureter	 Describe the extent and parts of ureter Describe the course and relations Describe the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.20	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Abdomen, Pelvis &	K & KH	Prostate gland	 Describe the morphology of prostate gland Describe the relations of prostate gland Describe the applied anatomy 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		K	Ovary	1.	Describe the morphology of	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		&	-		ovary		(Remem	2.	MK		SAQ.	SAQ	(H)
AN-		KH		2.	Describe the relations of		ber)	3.	NK				Obstetrics
7.21					ovary		&	4.	DK			Viva	and
				3.	Name the ligaments of ovary		Level 2	4.	DK			Voce	Gynecology
				4.	Mention the blood supply of		(underst						(V)
					ovary		and)						
				4.	Describe the applied								
					anatomy of ovary								

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.22	Problem formulation/ Integration of Knowledge/ Information gathering/Practical	bdomen, Pelvis & Perineum	К & КН	Uterus	 Describe the morphology of uterus Describe the relations of Uterus Name the ligaments and supports of uterus Mention the blood supply of uterus Describe the applied anatomy of uterus 	Cognitive	Level 1 (Remem ber) & Level 2 (underst and)	1. MK 2. MK 3. NK 4. DK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Physiology (H) Obstetrics and Gynecology (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		K	Fallopian	1.	Describe the morphology of	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		&	tube		fallopian tube		(Remem	2.	MK		SAQ.	SAQ	(H)
AN-		KH		2.	Describe the relations of		ber)	3.	DK				Obstetrics
7.23					fallopian tube		&					Viva	and
				3.	Describe the applied		Level 2					Voce	Gynecology
					anatomy of fallopian tube		(underst						(V)
							and)						
Hom		K	Scrotum	1.	Describe the morphology of	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		&	and Testis		scrotum		(Remem	2.	DK		SAQ.	SAQ	(H)
AN-		KH		2.	Mention its blood and nerve		ber)	3.	MK			LAQ	Surgery (V)
7.24					supply		&	4.	DK				
				3.	Describe the morphology of		Level 2					Viva	
					testis		(underst					Voce	
				4.	Describe the applied		and)						
					anatomy of testis								

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.25	Problem formulation/ Integration of Knowledge/	bdomen, Pelvis & Perineum	К КН	Vas deferens	 Mention the extent of ductus deferens, its course and relations Mention its blood and nerve supply Describe the applied anatomy of vas deferens 	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	1. MK 2. DK 3. MK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 7.26	К & КН	Rectum	 2. 3. 	Describe the morphology of rectum and its relations Mention its blood and nerve supply Describe the applied anatomy of rectum	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	1. 2. 3. 4.	MK MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.27	K & KH	Anal canal	1. 2. 3.	Describe the morphology of anal canal and its relations Mention its blood and nerve supply Describe the applied anatomy of anal canal	Cogniti ve	Level 1 (Remember) & Level 2 (understand)	5. 6. 7. 8.	MK MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ Viva Voce	Surgery (V)

SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency		Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/	Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom			K	Wall of pelvis	1.	Describe the structures	Cognitive	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Surgery (V)
UG-	/uo		&	including		that form the walls and		(Remember)	2.	DK		SAQ.	SAQ	
AN-	ati	∞	KH	pelvic		pelvic diaphragm		&	3.	DK				
7.28	nul Jf	Pelvis		diaphragm	2.	Describe the main blood		Level 2						
	forr on c ge/ ion					vessels and nerves pelvis		(understand)					Viva	
	ر <u>∹</u> ح	en, rine				and perineum							Voce	
	Problem Integrat Knowled	Abdomen, I Perine			3.	Describe their applied aspect								



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 7.29	K & KH	Perineum: superficial and deep perineal pouches	1. 2. 3.	Define perineum and mention its sub divisions Describe the boundaries and contents of superficial and deep perineal pouches Describe the applied anatomy	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. 2. 3.	MK MK DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)
Hom UG- AN- 7.30	К & КН	Ischiorectal fossa	1. 2. 3.	Describe the morphology of ischiorectal fossa Mention the contents Describe the applied anatomy of anal canal	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. 2. 3.	MK MK MK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.31 & 7.32	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Pelvis & Perineum	К & КН	Systemic embryology: Development of Digestive system and Urogenital system	 Explain the process of formation of primitive and development of digestive system including liver and pancreas Explain the process of development of kidney, urinary bladder and ureter Explain the process of formation of male and female gonads and reproductive organs. 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. DK 2. DK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)
Hom UG- AN- 7-33 to 7-36	Problem formulation/ Integrati gathering/Practical Skills/Infori	Abdomen, F	К & КН	Systemic histology: Microscopic structure of Digestive, urinary, reproductive systems and Supra renal gland	 Describe the microscopic structure of digestive, urinary, reproductive systems and supra renal gland Correlate with their functions Explain the applied aspect and correlate with histopathology 	Cognitive	Level 1 (Remember) & Level 2 (understand)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom				1. Enumerate	the	Cognitive	Level 1	NK	Integrate	Viva	-	Homoeopat
UG-			Ctonoctonoc	homoeopathic	drugs		(Remember/		d lecture	Voce		hic Materia
AN-		17	Structures	related to Struct	tures of		recall)					Medica (H),
7.37		K	of Abdomen	Abdomen & Pelvis	5.							Repertory.
			& Pelvis.	2. Enumerate the	rubrics							(H)
				related to Structu	res of							
				Abdomen & Pelvis	5.							

8. Topic: Head Neck Face & Special Senses

Learning Outcomes (LO): At the end of Head Neck & Face, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the Head Neck &Face, their blood supply, and applied anatomy.
- 2. Describe the anatomy of the joints of the Head Neck & Face, their blood supply, action and applied anatomy.
- 3. Explain the anatomy of the muscles of the Head Neck & Face, their origin, insertion, nerve supply, action and applied anatomy.
- 4. Describe the atomy of the vessels and nerves of the Head Neck & Face, their course, muscles they supply, relations and applied anatomy.
- 5. Describe the triangles of the Neck with its applied anatomy.
- 6. Identify a particular bone of Head Neck & Face on X-Ray.
- 7. Describe the structure of the special senses organs with its applied anatomy.
- 8. Enumerate the homoeopathic drugs and rubrics related to structures of HNF.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D)	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.1 and 8.2	Problem formulation/ Integration of Knowledge/	Neck and Face	К	Introduction & Scalp	 Mention the main areas of the head and neck region Describe the layers of the scalp Enumerate the blood and nerves supplying the scalp Describe the applied anatomy of scalp 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V)
Hom UG- AN- 8.3	Problem formula [.] Knowledge/	Head, Ne	K	Face – Muscle, Nerve and Blood vessels	 Name the muscles of facial expression Mention the blood and nerve supply of face Explain related applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.4	of Knowledge/ Information on management/synthesis		К	Lachrymal apparatus	 Mention the components of lachrymal apparatus Describe the location and function of each of the components of lachrymal apparatus Describe their applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.5	gration of Knowlec nformation manage	d, Neck and Face	К	Side of the neck: Posterior triangle	 Define triangles of neck Describe the boundaries and contents of posterior triangle Describe applied aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V)
Hom UG- AN- 8.6	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Head,	К	Front of the neck and Anterior triangle	 Describe the sub divisions of anterior triangle Describe the boundaries and contents of carotid triangle and digastric triangle Describe the principal neurovascular bundle of the neck Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. Dk 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.7	of Knowledge/ Skills/Information		К	Deep Cervical fascia	 Describe the parts of deep cervical fascia Describe the attachments and modifications Explain applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.8	Jation/ Integration gathering/Practical	d, Neck and Face	К	Back of the neck: suboccipital triangle	 Describe the features of the back of the neck Describe the boundaries and contents of occipital triangle 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.9	Problem formulation/ Information gatheri	Head,	К	Content of the Vertebral Canal	 List the contents of the vertebral canal Describe the meninges of the spinal cord Describe the internal vertebral plexus of veins and their applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.10	on of Knowledge/ Skills/Information	Face	К	Parotid Gland	 Describe the surfaces, border and relations of parotid gland Mention the blood and nerve supply of the parotid gland List the structures inside the parotid gland and parotid duct Describe the clinical aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.11	ulation/ Integration gathering/Practical	Head, Neck and F	К	Submandibular gland	 Describe the morphology of submandibular gland Mention its blood and nerve supply Describe the applied aspect 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.12	Problem formulation/ Information gatherir	ł	К	Muscles of Mastication	 Name the muscles of mastication Describe their attachments, nerve supply and actions Describe related applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.13	of Knowledge/ Information ion management/synthesis		K	Temporo- Mandibular Joint	 Describe the articulation of TM joint Enumerate the ligaments of the joint Describe the relations Explain the movements of the joint Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)
Hom UG- AN- 8.14	gration of Knowledge nformation managem	Head, Neck and Face	К	Thyroid Gland	 Describe the location, external features and relations Describe the blood and nerve supply Describe its development Explain the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V)
Hom UG- AN- 8.15	Problem formulation/ Integration of Knowledge/ Informatior gathering/Practical Skills/Information management/synthesis	He	K	Cranial cavity: Dura mater, Dural venous sinuses & Pituitary gland	 Describe the contents of cranial cavity Describe morphology of pituitary gland and its clinical importance Describe the folds of dura mater Classify dural venous sinuses Explain anatomy and clinical importance of cavernous sinus 	Cognitiv e	Level 1 (Remem ber/ recall)	 MK MK MK MK MK 	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D)	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.16	of Knowledge/ Skills/Information	Face	К	Contents of the Orbit	 Name the contents of orbit Describe the fasciae around eye ball Describe the course and distribution of ophthalmic nerve Describe blood vessels in the orbit Describe the connections and distribution of ciliary ganglion 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. MK 5. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V) Medicine (V)
Hom UG- AN- 8.17	lation/ Integration gathering/Practical	Head, Neck and I	К	Extra Ocular Muscles	 Name the extra ocular muscles Describe their attachments, nerve supply and actions Discuss the clinical anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 8.18	Problem formulation/ Integration Information gathering/Practical	Ĭ	К	Oral cavity	 Describe the parts and structure of tooth Explain blood and nerve supply of tooth Describe applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.19	dge/ Information Jement/synthesis		К	Soft palate and palatine tonsil	 Describe the structure, muscles, blood and nerve supply of soft palate Define Waldayer's lymphatic ring Describe the features, blood and nerve supply of palatine tonsil Describe the applied anatomy of palatine tonsil 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. NK 3. MK 4. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (H)
Hom UG- AN- 8.20	ntegration of Knowled Is/Information manag	Head, Neck and Face	К	Tongue	 Describe the parts, features of the tongue Describe the blood and nerve supply of tongue Describe applied anatomy of tongue 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 8.21	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis		К	Pharynx	 Describe the parts of the pharynx and their features Describe the constrictors of pharynx Describe the blood and nerve supply Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ.LA Q Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.22	of Knowledge/ Skills/Information		К	Larynx	 Describe the cartilages of larynx Describe the interior of larynx Describe its blood and nerve supply Explain its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	 MK MK MK OK 	Lecture	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H)
Hom UG- AN- 8.23	Integration ng/Practical	Head, Neck and Face	К	Nose and paranasal air cavities	 Describe the features, blood and nerve supply of nasal septum and lateral wall of the nose Describe the features, blood and nerve supply of paranasal air sinuses Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ Viva Voce	Physiology (H) Surgery (V)
Hom UG- AN- 8.24	Problem formulation/ Information gatheri	<u>+</u>	К	Ear: middle ear cavity	 Mention the parts of the ear Describe the parts, boundaries and contents of middle ear cavity Describe features of ear ossicles Describe the applied anatomy of middle ear cavity 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Surgery (V) Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)			
Hom UG- AN- 8.25	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information Head, Neck and Face	ace	К	Eustachian tube	 Describe the parts of the auditory tube Describe its relations Mention the blood and nerve supply Describe its clinical anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)			
Hom UG- AN- 8.26			Neck and	Neck and	Neck and	Neck and	К	Eyeball	 Describe the structure and location Mention the characteristics Function of each of the basic tissues 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ.Viv a Voce
Hom UG- AN- 8.27	Problem formulation Information gather		К	Common & Internal carotidartery	 Describe the origin, course relations and branches of CCA Describe the origin, parts, course relations and distribution of ICA Describe their applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Surgery (V)			



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 8.28	edge/ Information igement/synthesis		К	External carotid artery	 Describe the origin, parts, course relations and distribution of ECA Describe the course, relations and distribution of facial, lingual, maxillary and superficial temporal arteries Describe their applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. LAQ Viva Voce	Physiology (H)
Hom UG- AN- 8.29	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/Information management/synthesis	Head, Neck and Face	К	Vertebral artery and middle meningeal artery	 Describe the parts, course, relations and branches of vertebral artery Describe the parts, course, relations and branches of middle meningeal artery Describe its applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)
Hom UG- AN- 8.30	ت ج م ع Problem formulatic gathering/Practical		К	Internal Jugular vein	 Describe the formation of IVC Describe the course and relations of IVC Name the tributaries Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. DK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)															
Hom UG- AN- 8.31	ار Integration of Information	cand Face	К	Systemic histology: Thyroid gland, Pituitary gland and Tongue	 Describe the microscopic structure of thyroid gland, pituitary gland and tongue Correlate with their functions Explain the applied aspect and correlate with histopathology 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Pathology (V)															
Hom UG- AN- 8.32	Problem formulation/ Integration of Knowledge/	Head, Necl	Head, Neck	Head, Neck	Head, Necl	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Nec	Head, Ned	Head, Ne	Head, Ne	K	Systemic embryology: Pharyngeal arches: derivatives	 Describe the formation of pharyngeal arches Name the derivatives of pharyngeal arches Describe the formation of tongue and thyroid gland 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ, Viva Voce	Physiology (H)
Hom UG- AN- 8.33			K	Structures of HNF	Enumerate the homoeopathic drugs related to the structures of HNF Enumerate the rubrics related to the structures of HNF.	Cognitiv e	Level 1 (Remem ber/ recall)	NK	Integrated Lecture	Viva voce	-	Homoeopa thic Materia Medica (H), Repertory (H)															



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

9. Topic- Brain- CNS System

Learning Outcomes (LO): At the end of CNS, I-BHMS student should be able to;

- 1. Describe the structure of Brain and CNS with their applied anatomy.
- 2. Classify nervous system and identify the parts of the brain and their features and internal structure.
- 3. Describe the origin and course of cranial nerves.
- 4. Enumerate the homoeopathic drugs and rubrics related to the structures of CNS.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9.1	formulation/ Integration of ge/ Information	S SYSTEM: BRAIN	K	Introduction	 Describe the parts of the nervous system Mention the parts of the brain Describe the structure of neuron and neuroglia Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ LAQ. Viva Voce	Physiology (H)
Hom UG- AN- 9.2	Problem formulatior Knowledge/	CENTRAL NERVOUS	К	Meninges & CSF	 Describe the layers of meninges Define Cisterns Describe the ventricles Describe the formation, circulation and functions of the CSF Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK 5. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Describe the morphology of spinal	Cognitiv	Level 1	1.	DK	Lecture	MCQ,	MCQ,	Physiology
UG-					cord	е	(Remem	2.	DK		SAQ.	SAQ.	(H)
AN-				2.	Describe the structure in T.S		ber/	3.	DK	Group		Vivo	Madiaina () ()
9.3		K	Spinal cord	3.	Mention the main contents of gray		recall)	4.	DK	discussion		Viva	Medicine (V)
		K	Spirial cord		and white matter of SC			5.	DK			Voce	
				4.	Mention the blood supply of spinal								
					cord								
				5.	Describe the applied anatomy								

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9-4	ation/ Integration ye/ Information	RYOUS SYSTEM:	К	Medulla oblongata	 Describe the external features Describe the internal structures in the transverse sections Describe the blood supply Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. DK 3. DK 4. MK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
Hom UG- AN- 9-5	Problem formulation/ of Knowledge/	CENTRAL NERV	К	Pons	 Describe the external features Describe the structures in the transverse section Describe the blood supply Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom			1. Describe the location and external	Cognitiv	Level 1	1. MK	Lecture	MCQ,	MCQ,	Physiology
UG-			features	е	(Remem	2. MK		SAQ.	SAQ.	(H)
AN-			2. Describe the division and		ber/	3. DK	Group		LAQ	NA III OO
9.6	К	Cerebellum	connections of cerebellum		recall)	4. DK	discussion		Viva	Medicine (V)
		Cerebellolli	3. Enumerate cerebellar peduncles			5. DK			Voce	
			4. Name intra cerebellar nuclei			6. DK				
			5. Describe the blood supply							
			6. Describe the applied anatomy							

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9-7	Problem formulation/	CENTRAL	К	Fourth ventricle	 Describe the boundaries of the ventricle Explain the features Mention the structures in the floor of IV Ventricle Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Describe the external features	Cognitiv	Level	1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-				2.	Describe the structures in the	е	(Reme	m	2.	MK		SAQ.	SAQ.Viv	(H)
AN-		K	Mid-brain		transverse section		ber/		3.	DK	Group		a Voce	
9.8				3.	Describe the blood supply		recall)		4.	DK	discussion			Medicine (V)
				4.	Describe the applied anatomy									



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Name the parts of diencephalon	Cognitiv	Level 1	1.	DK	Lecture	MCQ,	MCQ,	Physiology
UG-			Diencephalon:	2.	Describe the nuclei of thalamus and	е	(Remem	2.	DK	6	SAQ.	SAQ.	(H)
AN-		V	Thalamus &		its functions		ber/	3.	DK	Group		\ /:	N4 1: : 0.0
9.9		K	Hypothalamu	3.	Describe the nuclei and functions of		recall)	4.	DK	discussion		Viva	Medicine (V)
			S		hypothalamus							Voce	
				4.	Explain clinical significance								

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9.10	formulation/ of Knowledge/	NERVOUS SYSTEM:	K	Third Ventricle	 Describe the boundaries of the ventricle Explain the features Name the structures in the floor of III Ventricle Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK 4. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
Hom UG- AN- 9.11	Problem Integration	CENTRAL NE	К	Lateral Ventricle	 Describe the boundaries of the ventricle Explain the features Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. MK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Describe the external features	Cognitiv	Level 1	1.	DK	Lecture	MCQ,	MCQ,	Physiology
UG-			Cerebrum:	2.	Name major sulci and Gyri	е	(Remem	2.	DK	C	SAQ.	SAQ.	(H)
AN-		K	external	3.	Describe the applied anatomy		ber/	3.	DK	Group		Vivo	Madicina ()()
9.12			features				recall)			discussion		Viva Voce	Medicine (V)
												voce	

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9.13	formulation/ of Knowledge/	NERVOUS SYSTEM:	К	Functional areas of cerebral cortex	 Mention the functional area and their importance Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
Hom UG- AN- 9.14	Problem Integration	CENTRAL NE	К	Basal ganglia	 Name the basal ganglia Describe their location and blood supply Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom			White matter	1.	Classify white matter of cerebrum	Cognitiv	Level 1	4.	DK	Lecture	MCQ,	MCQ,	Physiology
UG-			of cerebrum:	2.	Describe the parts of corpus	е	(Remem	5.	DK	Group	SAQ.	SAQ.	(H)
AN-		V	Corpus	_	callosum		ber/			discussion		Viva	Medicine (V)
9.15		K	callosum & Internal capsule	3. 4.	Describe the parts and composition of internal capsule Mention the blood supply of internal capsule		recall)					Voce	

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) /Knows how (KH) / Shows how (SH) /Does (D) K/KH/ SH/D	Specific Competency	Specific learning objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert s level	Must know (MK) / Desire to know (DK) / Nice to know (NK)	Teaching Learning Method/Media	Formative Assessment	Summative Assessment	Integration Horizontal (H) I/ Vertical(V)
Hom UG- AN- 9.16	Problem	CENTRAL	K	Blood supply of brain	 Mention the blood supply to the brain Explain the formation, branches and distribution of circle of Willis Describe the applied anatomy 	Cognitiv e	Level 1 (Remem ber/ recall)	1. MK 2. MK 3. DK	Lecture	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom				1.	Describe the origin, course,	Cognitiv	Level 1	1.	MK	Lecture	MCQ,	MCQ,	Physiology
UG-		14	Constal and a		branches and distribution of major	е	(Remem	2.	MK	_	SAQ.	SAQ.	(H)
AN-		K	Cranial nerves		cranial nerves		ber/	3.	MK	Group		Viva	
9.17				2.	Describe applied anatomy		recall)			discussion		Voce	Medicine (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom UG- AN- 9.18	К	Systemic embryology: Development of Brain	 Describe the formation and fate of neural tube List the derivatives of neural crest Describe the formation of eye ball Describe the formation of pituitary gland 	Cognitiv e	Level 1 (Remem ber/ recall)	1. DK 2. DK 3. Dk 4. DK	Lecture Group discussion	MCQ, SAQ.	MCQ, SAQ. Viva Voce	Physiology (H) Medicine (V)
Hom UG- AN- 9.19	K	Structures of CNS	 Enumerate the homoeopathic drugs related to the structures of CNS. Enumerate the rubrics related to the structures of CNS. 	Cognitiv e	Level 1 (Remem ber/ recall)	NK	Integrated Lecture	Viva voce	-	Homoeopa thic Materia Medica (H), Repertory (H)

PRACTICAL:

Topic – Histology

Learning Outcome- At the end of Histology, I-BHMS student should be able to;

1. Describe a particular organ and tissue through its histological features.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/ Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 1.1- 1.10 3.23 3.24 4.6 5.11 7.24 to 7.29	Problem formulation/ Integration of Knowledge/ Information gathering/Practical Skills/ Information	Histology	K	Histological & functional Correlation basic tissues and organs of the body	1. Identify the tissue/organ under microscope 2. Draw & label a schematic diagram to indicate the microscopic structure 3. Discuss Its characteristic features 4. Correlate the microscopic structure with its normal function	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. MK 4. DK	DOPS session	Spotting/OSPE/Practical Performance	Practical performance / Checklist	Physiology (H) Pathology (V)

Upper Extremities

Learning Outcomes (LO): At the end of Upper Extremity, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the upper extremity, their blood supply, and applied anatomy.
- 2. Describe the anatomy of the joints of the upper extremity, their blood supply, action and applied anatomy.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. Describe the anatomy of the muscles of the upper extremity, their origin, insertion, nerve supply, action and applied anatomy.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. Describe the anatomy of the vessels and nerves of the upper extremity, their course, muscles they supply, relation

and applied anatomy.

- 5. Identify a particular bone and joint of upper extremity on X-Ray.
- 6. Trace the course of the vessels and nerves of the upper extremity on the cadaver.

SI. No.	Generic	Subject Area	Millers: Knows (K)/ Knows How (KH)/	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 2.1 to 2.7	Problem formulation/ Integration of Knowledge/ Information	Upper Extremity	К	Osteology of upper extremity	 Describe the laterality and general features of the bone Describe the major attachments Describe ossification Describe the applied anatomy Draw the surface marking of the major structures in the regions using surface landmarks 	Cognitive	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	О	Spotting/OSPE/Practi cal Performance	d 2	S



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG- AN- 2.8 to		K	Dissection/ Demonstration	2.	Describe the important surface land marks in the region Identify major muscles, blood vessels and nerves	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. 2. 3. 4.	MK MK NK DK			
2.14				3.	including fascial structures of clinical importance Identify articular surfaces of major joints							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

				4.	Correlate features and normal functioning of joints					
Hom UG- AN-		I.	Radiological anatomy of upper	1.	Describe the normal appearance and relationship of bones and	Cognitive	Level 1 (Remember / Recall)	1. MK		
2.15		K	extremity		joints in a normal radiograph (X-ray) of the region					

Topic: Head Neck Face

Learning Outcomes (LO): At the end of Head Neck & Face, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the Head Neck & Face, their blood supply and applied anatomy.
- 2. Describe the anatomy of the joints of the Head Neck & Face, their blood supply, action and applied anatomy.
- 3. Describe the anatomy of the muscles of the Head Neck & Face, their origin, insertion, nerve supply, action and applied anatomy.
- 4. Describe the anatomy of the vessels and nerves of the Head Neck & Face, their course, muscles they supply, relation and applied anatomy.
- 5. Identify individual bones of Head Neck & Face on X-Ray.
- 6. Demonstrate the projection of structures of Head, Neck & Face on the cadaver.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/ Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 3.1to 3.6	knowledge/ Information I management/ synthesis	per	К	Osteology of Head, Neck & Face	 Describe the general features of the skull, hyoid bone, cervical vertebrae & mandible Describe the major attachments on mandible Mention clinically significant ossification features Draw the surface marking of the major structures in the regions using surface landmarks 	Cognitive	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	Demons tration	Spotting/OSPE/Practical Performance	Practical / Check	gery /)
Hom UG- AN- 3.7 to 3.21	Problem formulation/ Integration of Knowledge/ Information gathering/PracticalSkills/ Information management/ synthesis	Upper	К	Dissection/ Demonstration	 Describe the important surface land marks in the region Identify major viscera, muscles, blood vessels and nerves including fascial structures of clinical importance Identify articular surfaces of major joints Correlate features and normal functioning of joints 	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	Demon: tration	Spotting/OSP	Practical / Check	Surgery (V)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom			Radiological	1.	Describe the normal	Cognitive	Level 1	1. MK			
UG-		V	anatomy of		appearance and		(Remember				
AN-		K			relationship of bones and		/ Recall)				
3.22					joints in a normal						



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391160. Phone 1991 2568 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in



,	mo@sumandeepvidyapeethdu		33146.		umanu	chaid	<i>y</i> a
	Sl. No.	the ar	ng Out	Brain-			
	Generic Competency	natomy c nd descri	tcomes (l	Brain- CNS System			
	Subject Area	of the I	LO): ∕	stem			
	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	the anatomy of the Brain and its ap	vt the end o				
	Specific Competency	the anatomy of the Brain and its applied anatomy. CNS and describe the parts of brain.	f CNS, I-BHI			Face	Head Nack 8,
	Specific learning Objectives: At the end of the session student should be able to	atomy.	ng Outcomes (LO): At the end of CNS, I-BHMS student should be able to;			region	radiograph (X-ray) of the
	Bloom' s Domain		to;				
	Guilbert' s level						
	Must know/ Desire to know/ Nice to know						
	Teaching Learning Method/ Media						
	Formative Assessment						
	Summative Assessment						
	Integration Horizontal/ Vertical						

97



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. 1 to 4.5	ulation/ dge/ Info tical Skil	Central Nervous System	K	Describe normal features of brain and spinal cord	3.	Identify parts of brain on a specimen/model Describe normal location and relationship of brain and spinal cord Describe its applied anatomy	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. 2. 3.	MK MK DK	DOAP session	Spotting/OSPE/Practical Performance	Practical performance / Checklist		Physiology (H) Pathology (V)
-------------------	-------------------------------------	------------------------	---	--	----	---	--------------------------	-----------------------------------	----------------	----------------	--------------	-------------------------------------	-----------------------------------	--	------------------------------

Topic: Thorax

Learning Outcomes (LO): At the end of Thorax, I-BHMS student should be able to;

- 1. Describe the anatomy of the Respiratory and Cardiovascular system with their applied anatomy.
- 2. Identify the organs of the Respiratory and Cardiovascular system.
- 3. Explain features of X-ray thorax.
- 4. Demonstrate surface projection of thoracic organs.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' s level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/ Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 5.1 to 5.3	edge/ Information agement/ synthesis	ty	К	Osteology of Thorax	 Describe the general features of the sternum, ribs and thoracic vertebrae Describe the major attachments on mandible Mention clinically significant ossification features Draw the surface marking of the major structures in the regions using surface landmarks 	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	u	Performance	list	
Hom UG- AN- 5.4 to 5.9	Problem formulation/Integration of Knowledge/Information gathering/Practical Skills/Information management/synthesis	Upper Extremity	К	Dissection/ Demonstration	1. Describe the important surface land marks in the region 2. Describe the morphology of lung and its relations. 3. Describe the external features of heart and interior of its chambers 4. Identify major contents of superior and posterior mediastina	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	Demonstration	Spotting/OSPE/Practical Performance	Practical/ Check list	Surgery (V)
Hom UG- AN- 5.10	Problem fo gathering/F		К	Radiological anatomy of Thorax	Interpret normal chest radiograph in conventional P-A view	Cognitive	Level 1 (Remember / Recall)	1. MK				



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Topic: Lower Extremities

Learning Outcomes (LO):

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

At the end of Lower Extremity, I-BHMS student should be able to;

- 1. Describe the anatomy of the bones of the Lower extremity, their blood supply and applied anatomy.
- 2. Describe the anatomy of the joints of the Lower extremity, their blood supply, action and applied anatomy.
- 3. Describe the anatomy of the muscles of the Lower extremity, their origin, insertion, nerve supply, action and applied anatomy.
- 4. Describe the anatomy of the vessels and nerves of the Lower extremity, their course, muscles they supply, relations and applied anatomy.
- 5. Identify a particular bone and joint of Lower extremity on X-Ray.
- 6. Trace the course of the vessels and nerves of the Lower extremity on the cadaver.

SI. No.	Generic Competency	Subject Area	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert's level	Must know/ Desire to know/ Nice to know	Teaching Learning Method/ Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 6.1 to 6.7	Problem formulation/ Integration of Knowledge/ Information gathering/Practical	Upper Extremity	K	Osteology of lower extremity	 Describe the laterality and general features of the bones of the region Describe the major attachments Mention clinically important ossification features Draw the surface marking of the major structures in the regions using surface landmarks 	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	Demonstration	Spotting/OSPE/Practical Performance	Practical/ Check list	Surgery (V)

100



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom UG- AN- 6.8 to 6.15		К	Dissection/ Demonstration	1. 2. 3. 4.	Describe the important surface land marks in the region Identify major muscles, blood vessels and nerves including fascial structures of clinical importance Identify articular surfaces of major joints Correlate features and normal functioning of joints	Cognitive	Level 1 (Remember / Recall)	5. 6. 7. 8.	MK MK NK DK		
Hom UG- AN- 6.16		К	Radiological anatomy of Lower extremity	2.	Describe the normal appearance and relationship of bones and joints in a normal radiograph (X-ray) of the region	Cognitive	Level 1 (Remember / Recall)	1. [MK -		

Topic: Abdomen

Learning Outcomes (LO): At the end of Abdomen, I-BHMS student should be able to;

- 1. Describe the anatomy of the Abdominal and pelvic organs with their applied anatomy.
- 2. Identify the abdominal and pelvic organs in dissection.
- 3. Explain features of plain X-ray abdomen and pelvis.
- 4. Demonstrate surface projection of Abdominal and pelvic organs.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



SI. No.	Generic Competency	Subject Area	Millers: Knows (K) / Knows How (KH)/ Shows How (SH)/ Does (D)	Specific Competency	Specific learning Objectives: At the end of the session student should be able to	Bloom's Domain	Guilbert' slevel	Must know/ Desire to know/ Nice to know	Teaching Learning Method/ Media	Formative Assessment	Summative Assessment	Integration Horizontal/ Vertical
Hom UG- AN- 7.1 to 7.6	Problem formulation/Integration of Knowledge/Information gathering/Practical Skills/Information management/synthesis	Upp	К	Osteology of Abdomen & Pelvis	 Describe the general features of the lumbar vertebra, Sacrum & Pelvis Describe the major attachments on sacrum Mention clinically significant ossification features Draw the surface marking of the major structures in the regions using surface landmarks 	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK	Dem onst	Spotting/OSPE/Practical Performance	Prac tical/	Surg ery
Hom UG- AN- 7.7 to 7.22	Problem formulation/ Integra gathering/Practical Skills/ Inf		К	Dissection/ Demonstration	 Describe the important surface land marks in the region Identify the abdominal viscera and describe major surface & internal features Identify pelvic viscera and describe their features and relations 	Cognitive Psychomotor	Level 1 (Remember / Recall)	1. MK 2. MK 3. NK 4. DK		Spotting		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Ш	om			Radiological	1	Interpret a normal	Cognitive	Level 1	1. MK			ı
	-			Radiological	1.		Cognitive		I. IVIIX			ļ
U	G-			anatomy of		radiograph (X-ray) of the		(Remember				
1A	N-		K	Abdomen &		abdomen and pelvis in		/Recall)				
7.2	23			Pelvis		different commonly used						
						views						ı



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



8. Practical Topics (Non-Lecture Activities)

Sl. No	Non-Lecture Teaching Learning methods	Time Allotted per Activity (in Hours)
9.	Seminars/ Workshops	10
10.	Group Discussions	10
11.	Problem based learning	10
12.	Integrated Teaching	15
13.	Case Based Learning	10
14.	Self-Directed Learning	15
15.	Tutorials, Assignments & projects	10
	Sub total	80
16.	Practical	250
	Total	330



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



9. ASSESSMENT

Assessment Summary -

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Number of papers and Mark Distribution

Sl. No.	Course Code	Papers	Theory	Practical	Viva Voce	Internal Assessment- Practical	Grand Total
1.	Hom UG-AN	2	200	100	80	20	400

Scheme of Assessment (formative and Summative)

SI. No	Professional Course	1 st term (1-6 Months)	2 nd Term (7-12 Months)	3 rd Term (13-18 Mon	ths)
1.	First Professional BHMS	1 st PA + 1 ST TT	2 nd PA+2 ND TT	3 rd PA	UE
		1 st PA – 4 th month	2 nd PA – 9 th month	3 rd PA - 14 th month	17 th month
		1 st TT – 6 th month	2 nd TT — 12 th month		

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

Evaluation Methods for Assessment

Sl. No	Evaluation Criteria
1.	Theory, Practical, Viva voce Performance
2.	Theory: MCQs, SAQs and LAQs (MEQ - Modified Essay Questions/Structured Questions)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



I. Theory

Question Paper Layout

ck, Central nervous System, Upper ext	remities and Embryology.
MCQ	10 marks
SAQ	50 marks
LAQ	40 marks
emities and Histology (micro anatomy	r).
MCQ	10 marks
SAQ	50 marks
LAQ	40 marks
	MCQ SAQ LAQ emities and Histology (micro anatomy MCQ SAQ



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



I. Distribution of marks (Theory)

Paper-	I							
					D			
SI. No	A	В	С	Type of Questions and marks allotted "Yes" can be asked. "No" should not be asked.				
	List of Topics	Term	Marks	MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)		
1.	General Anatomy	I		Yes	Yes	No		
2.	Head, Neck & Face	II	Refer	Yes	Yes	Yes		
3.	Central Nervous System	II	Next Table	Yes	Yes	Yes		
4.	Upper Extremities	I	i abie	Yes	Yes	Yes		
5-	Embryology	I		Yes	Yes	No		

Paper-II				
				D
SI. No	Α	В	С	Type of Questions and marks allotted "Yes" can be asked. "No" should not be asked.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

	List of Topics	Term	Marks	MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1.	Thorax	П		Yes	Yes	Yes
2.	Abdomen, Pelvis & Perineum	III	Refer Next	Yes	Yes	Yes
3.	Lower Extremities	III	Table	Yes	Yes	Yes
4.	Histology	I		Yes	Yes	No

Theme table

Paper-I

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
Α	General Anatomy	I	10	Yes	Yes	No
В	Upper Extremities	I	25	Yes	Yes	Yes
С	Embryology	I	15	Yes	Yes	No
D	Head, Neck and Face	II	30	Yes	Yes	Yes
Е	Central nervous System	II	20	Yes	Yes	Yes



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Paper-II

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's	
А	Lower Extremities	III	30	Yes	Yes	Yes	
В	Thorax	II	30	Yes	Yes	Yes	
C Abdomen, Pelvis & Perineum		III	30	Yes	Yes	Yes	
D	Histology	I	10	Yes	Yes	No	

Question paper Blue Print

Paper-I

A B		Question Paper Format		
Question Serial Number	Type of Question	(Refer table 4 F II Theme table for themes)		
Q1	Multiple choice Questions (MCQ) 10 Questions 1 mark each All compulsory Must know part: 7 MCQ	1. Theme A 2. Theme A 3. Theme B 4. Theme B 5. Theme C 6. Theme C 7. Theme D 8. Theme D 9. Theme E 10. Theme E		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Desirable to know: 2 MCQ.	
	Nice to know: 1 MCQ	
Q ₂	Short answer Questions	1. Theme A
	(SAQ)	2. Theme B3. Theme B
	ten Questions	4. Theme C 5. Theme C
	5 Marks Each	6. Theme D
	All compulsory	7. Theme D 8. Theme D
	Must know part: 7 SAQ	9. Theme E
	Desirable to know: 2 SAQ	10. Theme E
	Nice to know: 1 SAQ	
Q ₃	Long answer Questions	1. Theme B
	(LAQ)	2. Theme D 3. Theme D
	four Questions	4. Theme E
	10 marks each	
	All compulsory	
	All questions on must know	
	No Questions on Nice to know and Desirab	le



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



to know	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Paper-II

Α	В	Question Paper Format
Question Serial Number	Type of Question	(Refer table II Theme table for themes)
Q1	Multiple choice Questions	1. Theme A
	(MCQ)	2. Theme A 3. Theme A
	10 Questions	4. Theme B 5. Theme B
	1 mark each	6. Theme C
	All compulsory	7. Theme C 8. Theme C
	Must know part:7 MCQ	9. Theme D
	Desirable to know: 2 MCQ.	10. Theme D
	Nice to know: 1 MCQ	
Q2	Short answer Questions	1. Theme A
	(SAQ)	2. Theme A 3. Theme A
	ten Questions	4. Theme B 5. Theme B
	5 Marks Each	6. Theme C
	All compulsory	7. Theme C 8. Theme C
	Must know part: 7 SAQ	9. Theme D
	Desirable to know: 2 SAQ	10. Theme D



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

	Nice to know: 1 SAQ	
Q ₃	Long answer Questions (LAQ) four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know	1. Theme A 2. Theme B 3. Theme C 4. Theme C

II. Scheme of Practical and Viva voce Examination and distribution of marks
(Practical 100 marks – Viva voce 80 marks + Internal assessment 20 marks: Total 200 marks)

Scheme of Practical Examination



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- 1. Spotters: 4 (5 marks each)
 - A. Histology Slide 2 (5 marks each)
 - a) Identification 1 mark
 - b) Draw and label 2 marks
 - c) Two identification features 2 marks

B. Radiology – 2 X-RAYS (5 marks each)

20 marks



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

a) Identification of X-Ray and its view — 1 mark b) Identification of features — 4 marks	
2. Osteology - Bones of Upper Extremity, Lower Extremity, Skull, Ribs and Vertebrae.	20 marks
3. Viscera - Organs from Thorax, Abdomen and CNS.	20 marks
4. Knowledge of dissected parts - Dissected Specimens of Upper and Lower Extremities.	20 marks
2. Surface marking	10 marks
3. Journal – Practical record of Anatomy including Histology and dissection card.	10 marks
Total	100 Marks

Viva voce Max. Marks - 80 + Internal assessment marks — 20			
Total marks	100 marks		

9B - Scheme of Assessment (Formative)

Sr. No	Professional Course	1 st term (1-6 Months)		2 nd Term (7-12 Months)		3 rd Term (13-18 Months)	
1	First	1 st PA	1 ST TT	2 nd PA	2 ND TT	3 rd PA	UE



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Professional	20 Marks	100 Marks	20 Marks	100 Marks	20 Marks
	BHMS	Practical/Viva	Practical/ Viva	Practical/Viva	Practical/ Viva	Practical/Viva



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



ı

0

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

•.

r Internal assessment, Only Practical/Viva marks will be considered. Theory marks will not be counted)

Method of Calculation of Internal Assessment Marks for Final University Examination:

PA1 Practical/Viva	PA ₂	PA ₃	Periodical	TT1	TT2	Terminal	Final
(20 Marks)	Practical/Viva	Practical/Viva	Assessment	Practical/	Practical/	Test	Internal
	(20 Marks)	(20 Marks)	Average	Viva	Viva	Average	Assessment
			PA1+PA2+PA3/3	(100	(100	TT ₁ +	Marks
				Marks)	Marks)	TT2/	
						200*20	
Α	В	С	D	Е	F	G	D+G/2

PA- Periodical Assessment, TT- Terminal Test, UE- University Examination



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



o:3101

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

recommended books –

10. List of

Standard Books

- Garq K, B.D.Chaurasia's Human Anatomy Regional & Applied, Dissection & Clinical. Upper limb & Thorax.
- Garg K, B.D. Chaurasia's Human Anatomy Regional & Applied, Dissection & Clinical. Lower limb & Abdomen
- Garq K, B.D. Chaurasia's Human Anatomy Regional & Applied, Dissection & Clinical. Head, Neck & Brain.
- Singh V. General Anatomy
- Singh V. Anatomy of Head, Neck & Brain
- Singh V. Anatomy of Upper limb & Thorax
- Singh V. Anatomy of Abdomen & Lower limb
- Singh V. Anatomy of Clinical embryology
- Garq K, Indira Bahl, Mohini Kaul. Textbook of Histology
- Halim A. Surface and Radiological Anatomy
- Khurana A, Khurana I, Garq K B.D. Chaurasia's Dream Human Embryology
- Loukas M, Benninger B, Tubbs R S. Gray's Clinical Photographic Dissector of Human Body
- Romanes G J. Cunningham's Manual of Practical Anatomy. Upper & Lower limb
- Romanes G J. Cunningham's Manual of Practical Anatomy. Abdomen & Pelvis
- Romanes G J. Cunningham's Manual of Practical Anatomy. Head & Neck

Reference books

- Eroschenko VP. Di'fiore's Atlas of Histology with functional correlation
- Gunasegaran JP. Text book of Histology & Practical Guide
- Hansen JT. Netter's Atlas of Human Anatomy. South Asian Ed
- Mescher AL. Junqueria's Basic Histology Text & Atlas
- Mortan DA, Peterson KD, Albretine K. H. Gray's Dissection Guide for Human Anatomy
- RomanesGJ.Cunningham's Textbook of Anatomy
- Ross &Wilson. Anatomy and Physiology in Health and Illness
- Singh, Inderbir. Human Embryology



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



• Sinnathamby CS. Snell's Clinical Anatomy for Medical Students.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



 Standring
 Susan. Gray's Anatomy The Anatomical Basis of Clinical

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Practice

• Tortora GJ & Derrickson B. Anatomy & Physiology.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

11. LIST OF

CONTRIBUTORS

Dr E S J Prabhu Kiran, M D (Hom)

Principal, Professor & HOD, Department of Anatomy

Fr Muller Homoeopathic Medical College, Mangalore, Karnataka.

Dr. Vaishali Rahuldeep Khobragade

Professor & H.O.D. Department of Anatomy

Dr. D.Y. Patil Homoeopathic Medical College & Research Centre, Pune, Maharashtra.

Dr Bharat Panchal

HOD, Anatomy Dept. Smt Malini Kishore Sanghvi Homoeopathic Medical College Karjan, Gujarat.

Dr. Gautam Ash

Former HOD, Pratap Chandra Memorial HMC, Kolkata, West Bengal.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

COMPETENCY BASED DYNAMIC CURRICULUM FOR FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Homoeopathic Materia Medica)

Subject- Homoeopathic Materia Medica

Subject code: HomUG-HMM-I

INDEX

S.No	Description	Page Number
1	Preamble	02
2	Program Outcomes (PO)	03
3	Course Outcomes (CO)	04
4	Teaching Hours	05
5	Course Content	07
6	Teaching Learning Methods	10
7	Content Mapping (Competencies Table)	11
8	Assessment	25
9	List of Recommended Books	31



Sumandeep Homoeopathic Medical College & Hospital A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018



10	List of Contributors	32



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

1. PREAMBLE

Homoeopathic Materia Medica is the study of the action of drugs on healthy human being as a whole taking into consideration individual susceptibility and its reaction to various circumstances and time. A good prescription by a homoeopath mainly depends upon the case receiving, processing and a sound knowledge of Homoeopathic Materia Medica.

Each drug in Materia Medica not only has its own personality with its mental and physical constitution but also has its own affinity to an area, direction, spread, tissue, organ, system. Study of a drug in context of altered sensation, function and structure covers the pathology caused by it, which is also expressed in the pathogenesis of the drugs. Materia Medica also has symptoms from toxicological and clinical proving. All this knowledge is of utmost importance in order to apply the remedies in various clinical conditions. This can be achieved only by integrating the study of Materia Medica with other parallel subjects taught during the course.

Apart from the source books of Materia Medica there are different types of Materia Medica constructed on different philosophical backgrounds by different authors. Materia Medica also forms the platform of various repertories. Therefore, it becomes very important for a student of homoeopathy to learn the plan and construction of all the basic Materia Medica in order to understand their practical utility in practice.

It is also important to keep in mind that the end point of the teaching of HMM is not to burden the student with information of more number of remedies but to equip with an approach which will help to develop the vision towards self-guided study and apply the knowledge in practice.

This self-directed learning can ultimately lead to a critical approach of studying Materia Medica hence empowering evidence based practice and initiate the process of lifelong learning. Exploring Materia Medica is an endless journey as newer illnesses will keep on emerging and newer drugs or undiscovered facets of existing drugs will be needed to explore for managing these situations.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

2. PROGRAM OUTCOMES:

At the end of BHMS program, a student must

- 1. Develop the competencies essential for primary health care in clinical diagnosis and treatment of diseases through the judicious application of homoeopathic principles
- 2. Recognize the scope and limitation of homoeopathy and to apply the Homoeopathic Principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community.
- 3. Discern the relevance of other systems of medical practice for rational use of cross referral and life saving measures, so as to address clinical emergences
- 4. Develop capacity for critical thinking and research aptitude as required for evidence based homoeopathic practice.
- 5. Demonstrate aptitude for lifelong learning and develop competencies as and when conditions of practice demand.
- 6. Be competent enough to practice homoeopathy as per the medical ethics and professionalism.
- 7. Develop the necessary communication skills to work as a team member in various healthcare setting and contribute towards the larger goals of national policies such as school health, community health, environmental conservation.
- 8. Identify and respect the socio-demographic, psychological, cultural, environmental & economic factors that affect health and disease and plan homoeopathic intervention to achieve the sustainable development Goal.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. COURSE OUTCOMES

At the end of BHMS I course, the students should be able to-

- 1. Define the homoeopathic Materia Medica.
- 2. Understand the philosophy of homoeopathic Materia Medica.
- 3. Describe evolution, sources and construction of different types of Homoeopathic Materia Medica.
- 4. Enumerate the scope and limitations of Homoeopathic Materia Medica.
- 5. Evolve the portrait and symptomatology of a particular drug using the knowledge of pharmacy, psychology, anatomy, physiology and Organon of medicine.
- 6. Observe the symptoms of a particular medicine in a clinical set-up with emphasis on individualizing symptoms.

Learning Objectives

- 1. To define the homoeopathic Materia Medica and grasp the basic concept with philosophy of it based on Hahnemannian directions.
- 2. To discuss different sources and types of homoeopathic Materia Medica.
- 3. To understand the drug in context of its pharmacological data, constitution, temperament, sphere of action, pathogenesis, both mental and physical generals, particular symptoms, characteristic/ individualising symptoms, general and particular modalities, relationship with other remedies including doctrine of signature.
- 4. To study and understand the bio-chemic system of medicine.
- 5. To identify the symptoms of a sick individual corresponding to the symptoms of a particular drug.
- 6. To develop an insight into scopes and limitations of homoeopathic Materia Medica.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail ld: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. TEACHING HOURS

Distribution of Teaching Hours:

Homoeopathic Materia Medica		
Year	Teaching hours- Lectures	Teaching hours- Non-lectures
1 st BHMS	120	75

4. A. Teaching Hours Theory:

S. no.	List of Topics	Hours
1.	Definition and introduction of Materia Medica	3
2.	Types of Homoeopathic Materia Medica	3
3.	Sources of Homoeopathic Materia Medica	4
4.	Study of drug picture (term I)	32
5.	Study of drug picture (term II)	33
6.	Theory of Bio chemic salts	2
7.	Individual bio chemic salts	14
8.	Study of drug picture (term III)	28
9.	Scope and Limitation of HMM	1
	Total	120

4.B. Teaching Hours Non-lecture:

Sr. No	A	В	C
	Study Setting	Term	Teaching Hours
1	OPD/IPD/Classroom	II & III	75

Non-Lecture Activities (Practical)-

Sr.	Non Lecture Teaching Learning methods	Time Allotted per Activity
No		(Hours)





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



1	Group Discussions	3
2	Problem based learning	5
3	Tutorials	10
4	Case Based Learning (live case)	55
	Total	75

ANOEE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

5. COURSE CONTENTS BHMS I (Theory)

1. Introductory Lectures

- a. Definition and introduction of basic Materia Medica. Contrast between Materia Medica and Homoeopathic Materia Medica.
- b. Sources, types, construction, scope and limitation of Homoeopathic Materia Medica
- c. Theory of biochemic system of medicine, its comparison with Homoeopathy and study of **12 biochemic tissue salts** with their physico-chemical reaction.

2. Homoeopathic medicines:

1. Aconite	18. CalcareaPhos	35. Hypericum
2. Aethusa Cynapium	19. Calendula	36. Ignatia
3. Allium Cepa	20. Carbo Veg	37. Ipecac
4. Aloe Soc	21. Chamomilla	38. Ledum Pal
5. Ammonium Carb	22. Cina	39. Lycopodium
6. Ammonium Mur	23. Cinchona	40. Natrum Carb
7. Antim Crude	24. Cocculus	41. Natrum Mur
8. Antim Tart	25. Coffea Cruda	42. Nux Vomica
9. Apis Mel	26. Colchicum	43. Podophyllum
10. Arnica Montana	27. Colocynth	44. Pulsatilla
11. Ars Alb	28. DioscoriaVillosa	45. Rhus Tox
12.Arum Triph	29. Croton Tig	46. Ruta
13. Baryta Carb	30. Drossera	47. Silicea
14. Belladona	31. Dulcamara	48. Spongia
15. Borax	32. Euphrasia	49. Sulphur
16. Bryonia Alba	33. Gelsemium	50. Symphytum
17. Calc Carb	34. HeparSulph	

3. Biochemic tissue salts:

1. Calc Flour	5. Kali Mur	9. Nat Mur*
2. Calc Phos*	6. Kali Phos	10. Nat Phos
3. Calc Sulph	7. Kali Sulph	11. Nat Sulph
4. FerrPhos	8. Mag Phos	12.Silicea*

^{*}Also included in the list of Homoeopathic medicines, hence total no. of medicines shall remain 59 for BHMS I.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Contents for Term I:

I. Introductory Lectures

- a. Definition and introduction of basic Materia Medica, contrast between Materia Medica and Homoeopathic Materia Medica
- b. Sources, types and construction of Homoeopathic Materia Medica

II. Homoeopathic medicines:

iii iiomocopatine incurentest	
1. Arnica montana	8.Natrum Mur
2.Bryonia	9.Rhus tox
3.Baryta carb	10.Ruta
4.Calc Carb	11.Silicea
5.Calendula	12.Sulphur
6.Hypericum	13.Symphytum
7. Ledum pal	

Contents for Term II:

I. Homoeopathic medicines:

1. Aconite nap	11.Colchicum
2.Aloes soc	12. Colocynth
3. Apis mellifica	13.Dioscorea
4. Arsenic Alb	14. Dulcamara
5.Belladona	15. Gelsemium
6.Cina	16. Ignatia
7.Chamomila	17. Lycopodium
8.Carbo veg	18. Nux vomica
9.Cinchona	19. Podophyllum



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

10.Cocculus	20. Pulsatilla nig.

- II. Theory of biochemic system of medicine, its comparison with Homoeopathy
- III. Study of 5 biochemic tissue salts with their physico-chemical reaction:

Calc Flour	
2. Calc Phos	
3. Calc Sulph	
4. Natrum Phos	
5.Natrum sulph	

Contents for Term III:

I. Homoeopathic medicines:

1. Homoeopatnic medicines:	
1. Aethusa cyn	9. Coffea cruda
2. Alliun cepa	10. Croton tig
3. Ammon Carb	11. Drosera
4. Ammon Mur	12. Euphrasia
5. Antim Crud	13.Hephar Sulph
6. Antim Tart	14.Ipecacuanha
7. Arum triph	15.Natrum carb
8. Borax	16.Spongia

II. Study of 5 biochemic tissue salts with their physico-chemical reaction:

1. FerrPhos	
2. Kali Mur	
3. Kali Phos	
4. Kali Sulph	
5. Mag Phos	

III. Scope and limitations of Homoeopathic Materia medica



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

6. TEACHING LEARNING METHODS

Lectures (Theory)	Non-lectures (Practical)
Lectures	Clinical demonstration
Small group discussion	Problem based discussion
Integrated lectures	Case Study
Assignments	
Library reference	

Different teaching-learning methods must be apply for understanding holistic and integrated Materia Medica. There has to be classroom lectures, small group discussions, case discussion where case based learning (CBL) and problem based learning (PBL) are specially helpful. In the applied Materia Medica, case discussion (CBL-PBL) method is beneficial for students. Audio visual (AV) methods for classroom teaching may be an innovative aid in order to demonstrate the related graphics and animations etc. In case of clinical demonstration – DOAP (Demonstration – Observation – Assistance – Performance) is very well applicable.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

7. CONTENT MAPPING (COMPETENCIES TABLE)

Topic 1- Definition and introduction of Materia Medica

Sr. No.	Generic Competency	Subject Area	Millers Level: Does/ Shows how/ Knows how/ Knows	Specific Competency	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirable to know/ nice to know	T-L Methods	Formative Assessment	Summative Assessment	Integration Departments- Horizontal/ Vertical/ Spiral
HomUG- HMM-I- 1.1	Information Gathering Integration	Definition and introduction of materia medica	Knows	Knowledge of fundamentals of HMM	Define the basic MM and HMM	Cognitive	Remember/recall Understand	Must Know	Lecture	MCQ, SAQ, Viva Voce	SAQ, Viva voce	Horizontal Integration with Organon
HomUG- HMM-I- 1.2	of information				Explain what sign and symptoms are with examples		Cinderstand					of Medicine
HomUG- HMM-I- 1.3					Contrast between MM and HMM							
HomUG- HMM-I- 1.4					Discuss the history of MM with emphasis on Hahnemannian directions							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr. No.	Generic	Subject	Millers	Specific	SLO/	Blooms	Guilbert's	Must	T-L	Formative	Summative	Integration
	Competency	Area	Level:	Competency	Outcome	Domain	Level	Know/	Methods	Assessment	Assessment	Departments-
			Does/ Shows how/ Knows how/					Desirable to know/ nice to know				Horizontal/ Vertical/ Spiral
			Knows									



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic 2- Types of Materia Medica

Sr. No.	Generic Competency	Subject Area	Millers Level: Does/ Shows how/ Knows how/ Knows	Specific Competency	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirable to know/ nice to know	T-L Methods	Formative Assessment	Summative Assessment	Integration Departments- Horizontal/ Vertical/ Spiral
HomUG- HMM-I- 2.1 HomUG- HMM-I- 2.2	Information Gathering Integration of information	Types of Materia Medica	Knows	Identify various types of HMM	Describe various types of HMM Enumerate types of HMM	Cognitive	Remember/recall Understand	Must Know	Lecture, small group discussion, demonstration	MCQ, SAQ, Viva Voce	SAQ, Viva voce	Horizontal Integration with Organon of Medicine and Pharmacy
HomUG- HMM-I- 2.3					Classify Homoeopat hic Materia Medica as per its types.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



HomUG-		Knows	Discuss the		Desirable			Ì
HMM-I-	1	how	characteristi		to know			
2.4			cs of each					
			type of					
			HMM based					
			on practical					
			utility.					



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Topic 3- Sources of Homoeopathic Materia Medica

-HMM- I-3.1 Gathering of HMM I-3.1 SAQ, Viva Voce Integration of HMM I-3.2 Integration with of HMM I-3.2 Integration with of HMM Information Information Information IIII Integration with of HMM Information Information IIII Integration with of HMM Information Information Information IIII Integration with of HMM Information Information III Integration with of HMM Information Information III Integration with organization with organization with organization of HMM Information Info	Sr. No.	Generic Competenc y	Subjec t Area	Millers Level: Does/Show s how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessmen t	Summative Assessmen t	Integration Departments - Horizontal/ Vertical/ Spiral
HomUG -HMM- I-3.4 Source books of HMM Discuss the plans and constructio	HomUG -HMM- I-3.2 HomUG -HMM- I-3.3	Gathering Integration of	of	Knows	sources of	of HMM Understand the concept of source books of HMM List the source books of HMM Discuss the plans and	Cognitiv	/ recall	Must know	Group discussion, Demonstratio			with Organon of Medicine, Homoeopathi c pharmacy Vertical and spiral integration



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



			books of				
			HMM				



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr. No.	Generic Competenc y	Subjec t Area	Millers Level: Does/Show s how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessmen t	Summative Assessmen t	Integration Departments - Horizontal/ Vertical/ Spiral
HomUG -HMM- I-3.5	Information Gathering Integration of information	Sources of HMM	Knows	Identify various sources of HMM	Enumerate different types of proving as sources of HMM	Cognitiv e	Remember / recall Understand	Must know	Lecture, Small Group discussion, Demonstratio	MCQ, SAQ, Viva Voce	SAQ, LAQ, Viva voce	Horizontal Integration with Organon of Medicine, Homoeopathi c pharmacy
HomUG -HMM- I-3.6			Knows how		Describe various proving sources of HMM							Vertical and spiral integration with FMT
HomUG -HMM- I-3.7					Understand the basic concept of various types proving as source of HMM							
HomUG -HMM- I-3.8	_			Insight into structure of various	Differentiat e the construction	-		Desirable to know			SAQ, Viva voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



		 		0	 				
			HMM	of different					
١								İ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	source books of HMM		

Sr. No.	Generic Competenc y	Subjec t Area	Millers Level: Does/Show s how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessmen t	Summativ e Assessmen t	Integration Departments - Horizontal/ Vertical/ Spiral
HomUG -HMM- I-3.9	Information Gathering Integration of information	Source s of HMM	Knows how	Identify various sources of HMM	Understand the construction of various HMM as a compilation based on the source books.	Cognitiv e	Remember / recall Understan d	Nice to know	Lecture, Small Group discussion, Demonstratio	Viva voce	Viva voce	Horizontal Integration with Organon of Medicine, Homoeopathi c pharmacy
HomUG -HMM- I-3.10					Draw the time line of Homoeopathi c Materia Medica based on their							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	history, evolution and philosophy	
--	---	--



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic 4- Homoeopathic Medicines

Sr. No.	Generic Competency	Subject Area	Millers Level: Does/Show s how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert' s Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessme nt	Summativ e Assessme nt	Integration Department s- Horizontal/ Vertical/ Spiral
HomUG -HMM- I-4.1	Information Gathering Integration of information Problem formulation Practical Skills	Homoeopat hic medicines included in: Term I, II and III	Knows, Knows how, Shows how	1. Evolve the symptom- tology of a particular drug 2. Observe the symptoms of a particular medicine in a clinical set-up	Describe the drug picture of homoeopathic medicines with following details-pharmacologic al data, constitution, temperament, sphere of action, doctrine of signature, pathogenesis, both mental and physical generals, particular symptoms, characteristic/individualizing symptoms, general and particular modalities, relationship	Psychomot or	Remembe r/ recall Understan d Interpret	Must Know	Lecture, Small Group discussion, Demonstratio n (clinical classes in OPD), Problem based learning	MCQ, SAQ, LAQ, Practical, Viva Voce	SAQ, LAQ, Practical, Viva voce	Horizontal Integration with pharmacy, psychology, anatomy, physiology and organon of medicine. Longitudinal and spiral with all allied subjects in BHMS



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr. No.	Generic Competenc y	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert' s Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessme nt	Summativ e Assessme nt	Integration Department s- Horizontal/ Vertical/ Spiral
HomU G- HMM- I-4.2 HomU G- HMM- I-4.3	Information Gathering Integration of information Problem formulation Practical Skills	Homoeopath ic medicines included in: Term I, II and III	Knows, Knows how, Shows how	1. Evolve the symptom-tology of a particular drug 2. Observe the symptoms of a particular medicine in a clinical set-up	.Formulate the drug picture/ symptomatolo gy of a particular drug using the knowledge of pharmacy, psychology, anatomy, physiology and organon of medicine. Understand the symptomatolo gy of a particular medicine in regard to a particular system/organ of the body.	Psychomot or	Remembe r/ recall Understan d Interpret	Must Know	Lecture, Small Group discussion, Demonstrati on (clinical classes in OPD), Problem based learning	MCQ, SAQ, LAQ, Practical, Viva Voce	SAQ, LAQ, Practical, Viva voce	Horizontal Integration with pharmacy, psychology, anatomy, physiology and organon of medicine. Longitudinal and spiral with all allied subjects in BHMS



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Sr. No.	Generic Competenc y	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert' s Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessme nt	Summativ e Assessme nt	Integration Department s- Horizontal/ Vertical/ Spiral
HomU G- HMM- I-4.4 HomU G- HMM- I-4.5	Information Gathering Integration of information Problem formulation	Homoeopath ic medicines included in: Term I, II and III	Knows, Knows how, Shows how	Evolve the symptom- tology of a particular drug	Identify the symptom similarity of a patient with a particular medicine in a clinical set up State the relationship of a medicine with other medicines	Cognitive, Psychomot or	Remembe r/ recall Understan d Interpret	Must Know	Lecture, Small Group discussion, Demonstrati on (clinical classes in OPD), Problem based learning	MCQ, SAQ, LAQ, Practical, Viva Voce	SAQ, LAQ, Practical, Viva voce	Horizontal Integration with pharmacy, psychology, anatomy, physiology and organon of medicine. Longitudinal and spiral with all
HomU G- HMM- I-4.6	Practical Skills		Knows how	Observe the symptoms of a particular medicine in a clinical set-up	Understand the relationship status of a medicine and its background	Cognitive	Remembe r/ recall Understan d	Desirabl e to know	Lecture, Small Group discussion,	MCQ, Viva Voce	Viva voce	allied subjects in BHMS



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



HomU			Observe the	Cognitive	Remembe	Nice to	Lecture,	Viva Voce	Viva voce
G-			variations in		r/ recall	know	Small Group		
HMM-		Knows	symptomatolo				discussion,		
I-4.7		how	gy of a		Understan				
			particular		d		Demonstrati		
			medicine in				on		
			most						
			commonly						
			used HMM of						



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

		eminent				
		authors				

Topic 5- Theory of Bio chemic tissue salts, its comparison with homoeopathy and study of 12 tissue remedies with their physico-chemical reaction:

Sr.No.	Generic Competency	Subject Area	Millers Level: Does/Shows how/ Knows how/ Knows	Specific Competency	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirable to know/ nice to know	T-L Methods	Formative Assessment	Summative Assessment	Integration Departments- Horizontal/ Vertical/ Spiral
HomUG- HMM-I- 5.1 HomUG- HMM-I- 5.2	Information Gathering, synthesis and application of knowledge in class room	Theory of Bio chemic tissue salts	Knows	Describe the Theory of Bio chemic tissue salts	Describe the Theory of Bio chemic tissue salts compare and contrast Homoeopathic system of medicine with Bio chemic tissue salts	Cognitive	Remember/ recall Understand	Must Know	Lecture, Small Group discussion	MCQ. Viva, Quiz Assignment	SAQ, MCQ	Horizontal Pharmacy, Biochemistry and Physiology Spiral Can compare the drug pathogenesis with



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



	eneric ompetency	Subject Area	Millers Level: Does/Shows how/ Knows how/ Knows	Specific Competency	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirable to know/ nice to know	T-L Methods	Formative Assessment	Summative Assessment	Integration Departments- Horizontal/ Vertical/ Spiral
HomUG- HMM-I- 5.3					co-relate the importance of knowledge of Biochemistry in better understanding of Bio chemic tissue salts List the 12 Bio chemic							Homoeopathic medicines Vertical Can explore the utility of Biochemic salts in treating deficiencies in Medicine, OBG etc



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Sr. No.	Generic Competenc y	Subject Area	Millers Level: Does/Show s how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirabl e to know/ nice to know	T-L Methods	Formative Assessmen t	Summativ e Assessmen t	Integration Departments - Horizontal/ Vertical/ Spiral
HomUG -HMM- I-5.5	Information Gathering Integration of information Problem formulation Practical Skills	Biochemi c medicines included in: Term II and III	Knows, Knows how, Shows how	1.Describe individual Biochemic tissue salts 2.Evolve the symptomtology of a particular drug 3.Observe the symptoms of a particular medicine in a clinical set-up	In addition to the competencies for homoeopathi c medicines, Describe individual Bio chemic tissue salts Explain the pathogenesis and symptomolog y of each Bio chemic tissue salts as per Dr, Wilhelm H. Schuessler.	Psychomoto r	Remember / recall Understan d Interpret	Must Know	Lecture, Small Group discussion, Demonstratio n (clinical classes in OPD), Problem based learning	MCQ, SAQ, LAQ, Practical, Viva Voce	SAQ, LAQ, Practical, Viva voce	Horizontal Integration with pharmacy, psychology, anatomy, physiology and organon of medicine. Longitudinal and spiral with all allied subjects in BHMS



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

HomUG			Justify the				
-HMM-			portrait of				
I-5.7			each tissue				
			salt in				
			correlation				
			with the				
			knowledge of				
			Biochemistry.				

Topic 6- Scope and limitation of homoeopathic Materia Medica:

Sr. No.	Generic Competency	Subject Area	Millers Level: Does/Shows how/ Knows how/ Knows	Specific Competency	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desirable to know/ nice to know	T-L Methods	Formative Assessment	Summative Assessment	Integration Departments- Horizontal/ Vertical/ Spiral
HomUG- HMM-I- 6.1 HomUG- HMM-I- 6.2	Information Gathering Integration of information	Scope and Limitations of HMM	Knows how	Must be able to comprehend the scope and limitations of Homoeopathic Materia Medica	List the scope and limitations of HMM Discuss the scope and limitations of HMM	Cognitive	Remember/ recall Understand	Must Know Must Know	Lecture. Small group discussion Case Based learning Problem Based	LAQ SAQ Viva,	LAQ SAQ Viva,	Horizontal Integration with pharmacy, psychology, anatomy, physiology and organon of medicine.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



HomUG-		Knows	Discuss	Understand	Nice to		
HMM-I-			the		know		Longitudinal
6.3			solutions				and spiral
							with all allied



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



			to overcome				subjects in BHMS
			the				
			limitations				
			of HMM				

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8. ASSESSMENT

Assessment Summary

8A- Number of papers and Mark Distribution

Sr. No.	Course Code	Papers	Theory	Practical (Assignment+ Spotting)	Viva Voce	Internal Assessment- Practical*	Grand Total
1	HomUG-HMM-I	1	100	20+10= 30	60	10	200

^{*}Note- For Internal assessment, only Viva marks obtained in three PAs and two TTs will be considered as explained in table 8B-1 and to be calculated as per the table 8B-2 given below. Theory marks shall not be taken into account for this purpose.

8B-I - Scheme of Assessment (formative and Summative)

First PA + 1 ST TT 2 nd PA+2 ND TT		
FITSL PA + 1 11 Z PA+Z 11	3 rd PA+UE	
First Professional 1st PA 1st TT 2nd PA 2nd TT 3rd	PA UE	
BHMS 10 marks practical/viva marks marks theory viva 10 marks practical/viva marks theory viva 10 marks practical/viva marks theory viva 10 marks practical/viva marks theory viva	1	

TO THE PERSON NAMED IN COLUMN TO THE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

PA: Periodical Assessment to be done only through practical/viva; TT: Term Test shall include both theory and viva; UE: University Examinations shall include both theory and viva as per table 8A

8B-II- Method of calculation of internal assessment marks for final university examination:

PA1 Practical/Viva (10 Marks)	PA2 Practical/Viva (10 Marks)	PA3 Practical/Viva (10 Marks)	Periodical Assessment Average PA1+PA2+PA3/3	TT1 Practical/ Viva (50 Marks)	TT2 Practical/ Viva (50 Marks)	Terminal Test Average TT1+ TT2/10	Final Internal Assessment Marks
A	В	С	D= A+B+C/3	E	F	G=E+F/10	D+G/2

8C - Paper Layout

Summative assessment:

Theory- 100 marks

MCQ	10 marks
SAQ	50 marks



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



LAQ	40	marks		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8 D- I - Distribution of Theory exam

Sr. No	Paper			D Type of Ques "Yes" can be "No" should	asked.	
	A	В	C	MCQ	SAQ	LAQ
	List of Topics	Term	Marks	(1 Mark)	(5 Marks)	(10 Marks)
1	Definition and introduction of basic materia medica and HMM; compare HMM and other Materia Medica	I	Refer Next Table	Yes	Yes	No
2	Sources, types, construction, scope and limitation of Homoeopathic Materia Medica	I,III		Yes	Yes	Yes
3	Theory of Biochemic system of medicine, its comparison with Homoeopathy and study of 12 Biochemic tissue salts with their physicochemical reaction	II		Yes	Yes	Yes
4	Drug Picture- 50 Homoeopathic Medicines	II & III		Yes	Yes	Yes



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8D-II - Theme table

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
A	Definition and introduction of basic materia medica and HMM; compare HMM and other Materia Medica	I	7	Yes	Yes	No
В	Sources, types, construction, scope and limitation of Homoeopathic Materia Medica	I,III	17	Yes	Yes	Yes
С	Theory of Biochemic system of medicine, its comparision with Homoeopathy and study of 12 Biochemic tissue salts with their physico-chemical reaction	II & III	22	Yes	Yes	Yes
D	Drug Picture- 50 Homoeopathic Medicines	I,II& III	54	Yes	Yes	Yes

8E- Question paper Blue print

		Question Paper Format
Question Serial Number	Type of Question	(Refer table 8D- II Theme table for themes)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Multiple choice Questions	1. Theme A	
(MCQ)	2. Theme A	
10 Questions	3. Theme B	
	4. Theme B	
1 ,	5. Theme C	
*	6. Theme C	
Nice to know: 1 MCQ	7. Theme D	
	8. Theme D	
	9. Theme D	
	10. Theme D	
	(MCQ) 10 Questions 1 mark each All compulsory Must know part: 7 MCQ Desirable to know: 2 MCQ.	(MCQ) 10 Questions 1 mark each All compulsory Must know part: 7 MCQ Desirable to know: 2 MCQ. Nice to know: 1 MCQ Theme A 3. Theme B 4. Theme B 5. Theme C 6. Theme C 7. Theme D 8. Theme D 9. Theme D



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Q2	Short answer Questions (SAQ) ten Questions 5 Marks Each All compulsory Must know part: 7 SAQ Desirable to know: 2 SAQ Nice to know: 1 SAQ	 Theme A Theme B Theme C Theme C Theme D
Q3	Long answer Questions (LAQ) Four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know	1. Theme B 2. Theme C 3. Theme D 4. Theme D



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

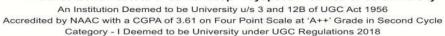


At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8F - Distribution of Practical Exam



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Practical & Viva-100 marks

Viva voce	60 marks
Practical (Assignment)*	20 marks
Practical (Spotting)	10 marks
Internal assessment**	10 marks (viva/ clinical assessment)

^{*}Assignment shall comprise of compilation of complete drug-portrait of 6 polychrest remedies and 4 biochemic salts

^{**} Method of calculation explained in table no. 8B-II



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

9. LIST OF RECOMMENDED REFERENCE BOOKS:

- Allen HC, 2005, Keynotes Rearranged and Classified with Leading Remedies of the Materia Medica and Bowel Nosodes, Reprint edition, B.Jain Publishers, New Delhi
- Choudhuri NM, 2006, A Study On Materia Medica Enriched with real case studies, Reprint revised edn, B.Jain Publishers, New Delhi
- Kent JT, 2015, Lectures On Homoeopathic Materia Medica, Reprint edn, B.Jain Publishers, New Delhi
- Burt W, 2009, Physiological Materia Medica, Third edn, B.Jain Publishers, New Delhi
- Boericke W, Dewey W, 2016, The Twelve Tissue Remedies By Schessler, Reprint edn, B.Jain Publishers, New Delhi
- All source books may be referred whenever required.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

10. LIST OF CONTRIBUTORS

I. Dr Vijaykrishna V

MD (Hom)
Reader and PG guide Department of HMM
Government Homoeopathic Medical college, Bangalore
RGUHS Karnataka.

II. Dr. Vanija Sharma

M. D. (Hom.), Ph.D. (Hom.)
Associate professor and HOD Materia Medica,
Dr. MPK Homoeopathic medical college,
A constituent college of Homoeopathy University, Jaipur, Rajasthan.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956



Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

COMPETENCY BASED DYNAMIC CURRICULUM FOR

FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(HOMOEOPATHIC REPERTORY and CASE TAKING)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

HOMOEOPATHIC REPERTORY and CASE TAKING (I PROFESSIONAL BHMS)

1. COURSE CODE: HomUG-R-I

SUBJECT NAME: HOMOEOPATHIC REPERTORY and CASE TAKING

INDEX

S. No	Description	Page Number
1	Preamble	02
2	Program Outcomes (PO)	03
3	Course outcomes (CO)	04
4	Teaching Hours	05
5	Course Contents of Hom UG-Rep-I	06
6	Teaching Learning methods	08
7	Content mapping-Learning Objectives (Theory) of Course HomUG-Rep-I	09
8	List of Practical Topics	15
9	List of Recommended Books	16
10	List of Contributors	17



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

1. PREAMBLE

The Homoeopathic Materia Medica has expanded manifold since the proving of "Cinchona Bark" by Dr. Samuel Hahnemann and today we have over five thousand remedies in the Materia Medica. It is impossible for any human mind to memorise all the symptoms of each drug and to recall those symptoms while prescribing. Therefore, the need of indexing of these symptoms along with the drugs producing those symptoms were felt by Dr. Samuel Hahnemann himself and subsequently by other homoeopaths for prescribing at the bedside of the patient.

Homoeopathic Repertory is a Dictionary or Storehouse or an index to the huge mass of symptoms of the Homoeopathic Materia Medica. The repertory is organized in a practical form indicating the relative gradation of drugs. Repertories not only contain symptoms of proving but also clinical and pathological symptoms found in the Homoeopathic Materia Medica. Repertories serve as an instrument at the disposal of the physician for sifting through the maze of symptoms of the vast Homoeopathic Materia Medica.

Repertories aim at simplifying the work of the physician to find the indicated remedy by eliminating the non-indicated remedies. Repertorisation is not the end but a means to arrive to the simillimum and reference to Homoeopathic Materia Medica based on sound principles of Philosophy is the final court of appeal.

Each repertory has been compiled on the basis of distinct philosophy, structure and utility. In order to use these instruments effectively, one must understand thoroughly its conceptual base, construction and utility and limitations. Even though there are a number of repertories, the student at the under graduate level is expected to learn the philosophy and application of basic core repertories namely. Kent, Boger's Boenninghausen Characteristics and Repertory and Boenninghausen's Therapeutic Pocket Book. The subject of Repertory must not be taught in isolation but must be taught in horizontal integration with Anatomy, Physiology in I BHMS; Pathology, Surgery, Gynaecology and Practice of Medicine in II BHMS; Surgery, Gynaecology, Practice of Medicine in III BHMS and Practice of Medicine in IV BHMS and vertically integrated with Homoeopathic Materia Medica and Organon and Homoeopathic Philosophy in all the years. Integrated teaching in all the years will help the student to grasp and understand the subjects better and connect repertory to all other subjects.

Similarly, case taking demands virtual integration of all the subjects taught from the Ist BHMS to IV BHMS in the consulting room or at the bedside. The physician can never say that he has learnt all that is to the case taking process. Every new patient has a new lesson to teach.

The advent of computerization and resulting software has opened up vast newer avenues to collate and correlate the vast information found in the Homoeopathic Materia Medica through the repertories. Continued exploration of these connections will generate new data, newer repertories and the newer application to existing or newer illnesses.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

2. PROGRAMME OUTCOMES:

At the end of the course of the undergraduate studies, the homoeopathic physician must

- 1. Develop the knowledge, skills, abilities and confidence as a primary care homoeopathic practitioner to attend to the health needs of the community in a holistic manner
- 2. Correctly assess and clinically diagnose common clinical conditions prevalent in the community from time to time
- 3. Identify and incorporate the socio-demographic, psychological, cultural, environmental & economic factors affecting health and disease in clinical work
- 4. Recognize the scope and limitation of homoeopathy in order to apply Homoeopathic principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community
- 5. Be willing and able to practice homoeopathy as per medical ethics and professionalism.
- 6. Discern the scope and relevance of other systems of medical practice for rational use of cross referrals and role of life saving measures to address clinical emergencies
- 7. Develop the capacity for critical thinking, self-reflection and a research orientation as required for developing evidence based homoeopathic practice.
- 8. Develop an aptitude for lifelong learning to be able to meet the changing demands of clinical practice
- 9.Develop the necessary communication skills and enabling attitudes to work as a responsible team member in various healthcare settings and contribute towards the larger goals of national health policies such as school health, community health and environmental conservation.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. COURSE OUTCOMES (CO):

At the end of course in Repertory, the Final BHMS student shall be able to

- Describe the philosophical background, construction, utility and limitations of various repertories
- 2. Demonstrate case taking and show empathy with the patient and family during case taking
- 3. Demonstrate various steps for systematic case processing viz. analysis of case, evaluation of symptoms as per Homoeopathic principles to form Totality of symptoms
- 4. Choose the appropriate repertorial approach, Method and Technique to repertorize a case
- 5. Utilize Repertory as a tool to find out simillimum in all types of cases and in the study of Materia Medica
- 6. Integrate other subjects in understanding the construction and utility of repertories
- 7. Utilize different software for Repertorization, patient data management and record keeping.
- 8. Demonstrate aptitude to utilize repertory for research in Homoeopathy and lifelong learning

COURSE OUTCOMES OF REPERTORY FOR I BHMS

At the end of IBHMS, the student should be able to,

- 1. Define Repertory.
- 2. Explain the need and utility of repertory to find simillimum and in the study of Materia Medica
- 3. Define various terminologies used in repertory and explain their utility
- 4. Locate different rubrics related to anatomy, physiology and psychology in Kent's Repertory
- 5. Illustrate the construction of Kent's Repertory as per the Hahnemannian Anatomical schema



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. TEACHING HOURS

Total Number of Teaching Hours: 21							
Course Name	Lectures	Non-Lectures	Total				
Homoeopathic Repertory and Case Taking (HomUG-R-I)	21	-	21				



Sumandeep Homoeopathic Medical College & Hospital A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

5. COURSE CONTENT(HomUG-R-I)

S.	List of Topics	Lecture Hours			
No					
1	Introduction to Repertory, Definition and Meaning of	3			
	Repertory				
	 General Introduction to Repertory 				
	 Origin of Repertory 				
	❖ Need of Repertory				
	Definition of Repertory				
	Meaning of REPERTORIUM				
2	Need and uses of repertory and repertorization	3			
	Uses and Scopes of Repertory				
	 Limitations of Repertory 				
	Definition of Repertorization				
	Introduction to Methods and Techniques of				
	Repertorization				
3	Terminologies relevant to Repertory	3			
	❖ Repertory				
	❖ Rubric				
	❖ Gradation				
	 Cross Reference 				
	Synonym				
	* Repertorization				
	Totality of Symptoms				
	* Repertorial Totality				
	❖ Potential Differential Field				
	❖ Conceptual Image				



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





	t: Piparia, Taluka: Wagnodia, District: Vadodara, Gujarat State, INDIA. Pin Code incipalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethd	
	❖ Case taking	
	Analysis of a case	
	 Evaluation of a Case 	
	Longitudinal case Study	
	 Cross Section Study of a case 	
	❖ General Repertory	
	Regional Repertory	
	❖ Logico-Utilitarian Repertory	
	 Puritan Repertory 	
4	Schematic representation of chapters in Kent's	6
-	repertory	
	Терегсогу	
	Introduction to Kent's Repertory	
	Listing of Chapters in Kent's Repertory	
	Correlation of Chapters in Kent's Repertory to	
	Hahnemannian Anatomical Schema	
	Chapters and Rubrics related to anatomical	
	structures, physiological processes and psychology	
	in Kent's Repertory	
5	Correlation of Anatomy, Physiology and Psychology	6
	with Repertory	
	❖ Introduction to correlation with Anatomy,	
	Physiology and Psychology with Repertory	
	Chapters and Rubrics related to Anatomical parts in	
	Dr. Kent's Repertory	
	Chapters and Rubrics related to Physiology in Dr.	
	Kent's Repertory	
	Rubrics related to emotions, intellect and memory	
	in Mind chapter of Dr. Kent's Repertory	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

6. Teaching Learning Methods

Theory	Practicals/ Clinics
Lectures	Clinical Bedside Teaching
Small Group Discussion	Integrated Clinics
Integrated Lectures	Case Study
Integrated Seminars	Rubric Banks
Assignments	
Rubric Banks	
Library Reference	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



discussio

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

-	E-mail id: prin	icipaisnmcn@st	ımandeepvidyapee	tnau.eau.in, into@su	mandeepvidyape	etnau.eau.in webs	site: www.sui	mandeepvidyape	etnau.eau.in	
	7.Conto	nt Mappin	g (Theory) of C	urse HomUG-	R-I					
eric peten	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formativ e Assessm ent	Sum ative Asse men
ic 1- Int	roduction t	o Repertory	, Definition a	nd Meaning of	Repertory		ı			
hering gratio of rmati	Introduc tion to Reperto ry	Knows	Get acquainted with tools required to search for remedy.	<i>Define</i> the term Repertory	Cognitive	Level I (Remember / recall)	Must Know	Lecture, Small Group discussio n	MCQ, SAQ, Viva Voce	
		Knows		Explain the meaning of Repertory	Cognitive	Level I (Remember / recall)	Desira ble to know	Lecture, Small Group discussio n	MCQ, SAQ, Viva Voce	
		Knows		Discuss the origin of the word	Cognitive	Level II (Understan d)	Nice to know	Lecture, Small Group	MCQ, SAQ, Viva Voce	

Repertory



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





	Knows	List	three	Cognitive	Level I	Must	Lecture,	MCQ,	
		uses	and		(Remember	Know	Integrate	SAQ, Viva	
		three			/ recall)		d	Voce	
		limitat	ions				teaching		
		of Rep	ertory				(with		
							Materia		
							Medica)		
							Small		
							Group		
							discussio		
							n		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



	E-mail id: prir	icipaisnmcn@st	ımandeepvidyapee	tnau.eau.in, into@su	mandeepvidyape	etnau.eau.in webs	ite: www.su	mandeepvidyap	etnau.eau.in	- 12
eric peten	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formativ e Assessm ent	Sum ative Asse men
IC 2: Ne	ed and use	es of reperto	ory and repert	orisation						
hering gratio of rmati	Need and uses of repertor y and repertor isation	Knows	Get acquainted with tools required to search for remedy.	Explain the need of repertory	Cognitive	Level II (Understan d)	Must know	Lecture, Small Group discussio n	MCQ, SAQ, Viva Voce	
		Knows		Explain the need of Repertorizat ion to find a simillimum Describe the uses of	Cognitive	Level II (Understan d) Level II (Understan	Desira ble to know Must know	Lecture, Small Group discussio n Lecture, Small	MCQ, SAQ, Viva Voce MCQ, SAQ, Viva	
				Repertory		d)		Group discussion	Voce	
		Knows		Describe the limitations of Repertory	Cognitive	Level II (Understan d)	Must know	Lecture, Small Group discussio n	MCQ, SAQ, Viva Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle



Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

	Kn	nows	Disc	cuss	the	Cognitive	Level	Ш	Desira	Lecture,	MCQ,	
			use		of		(Underst	tan	ble to	Small	SAQ, Viva	
			Rep	ertor	y as		d)		know	Group	Voce	
			a	tool	to					discussio		
												J



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle



	Category - I Deemed to be University under UGC Regulations 2018									
3				: Vadodara, Gujarat S thdu.edu.in, info@su						
eric	Subject	Millers	Specific	SLO/	Blooms	Guilbert's	Must	T-L	Formativ	Sum
peten	Area	Level:	Competenc	Outcome	Domain	Level	Know/	Methods	е	ativ€
		Does/Sho	У				Desira		Assessm	Asse
		ws how/					ble to		ent	men
		Knows					know/			
		how/					nice to			
		Knows					know			
				select the				n, Clinical		
				remedy for a				Teaching		
				given case						
IC 3: Te	rminologie	s relevant t	o Repertory		<u> </u>	1			I	
hering	Termino	Knows	То	Define	Cognitive	Level I	Must	Lecture,	MCQ,	
	logies		understand	different		(Remember	know	Small	SAQ, Viva	
gratio	used in		the	terminology		/ recall)		Group	Voce	
of	repertor		definition	associated				discussio		
rmati	У		of various	with				n,		
			terminologi	repertory						
			es used in							
			repertory in order to							
			order to apply them							
			for							
			Repertoriza							
			tion							
				_						<u> </u>
		Knows		Explain the	Cognitive	Level II	Must	Lecture,	MCQ,	

meaning and

use of each

terminology

terminology

the

the

of

Apply

in

Knows

(Understan

d)

Level

d)

(Understan

Cognitive

Page **11** of **17**

know

Must

know

Small

Group

discussio n, Clinical teaching

Lecture,

Small

Group

SAQ, Viva

Voce

MCQ,

Voce

SAQ, Viva



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



IC 4:	Schematic representation of chapters in Kent's repertory	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



			1				1			
eric peten	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formativ e Assessm ent	Sum ative Asse men
hering gratio of rmati blem ing	Schema tic represe ntation of chapter s in Kent's repertor y	Knows	To understand the arrangeme nt of Chapters in Dr. Kent's Repertory	List the 37 chapters of Kent's Repertory in the proper order	Cognitive	Level I (Remember / recall)	Must know	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	
		Shows		Demonstrat e the relation of chapters in Kent's Repertory to Anatomy and Physiology and mental rubrics to Psychology	Cognitive	Level II (Understan d)	Must	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	
		Knows		Discuss the correlation of chapters in Kent's Repertory to the schematic representati on of	Cognitive	Level II (Understan d)	Desira ble to know	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

remedies in



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



	E-mail ld: prir	ncipalshmch@su	ımandeepvidyapee	thdu.edu.in, info@:	sumandeepvidyap	eethdu.edu.in Webs	site: www.su	mandeepvidyap	eethdu.edu.in	15
eric peten	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formativ e Assessm ent	Sum ative Asse men
				Materia Medica						
tion of	Anatomy, I	Physiology a	nd Psychology	y with Reperto	ory	1			<u> </u>	<u> </u>
gratio of rmati blem ing	Correlat ion of Anatom y, Physiolo gy and Psychol ogy with Reperto ry	Knows	To correlate the knowledge of Anatomy, physiology And Psychology in constructio n of Repertory and Rubrics	Apply the correlation of Anatomical Structures to Chapters and Rubrics in Kent's Repertory		Level II (Understan d)	Must	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	
		Knows		Relate physiologica Processes to the Chapters and Rubrics in Kent's Repertory		Level II (Understan d)	Must know	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Knows	Apply	the	Cognitive	Level	Ш	Must	Lecture,	MCQ,	
		correlat	ion		(Unders	tan	know	Small	SAQ, Viva	
		of			d)			Group	Voce,	
		psychol	ogy					discussio	OSPE	
		in	Mind					n, Clinical		
		Chapter	and					teaching		
		Rubrics	in							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



eric peten	Subject Area	Millers Level: Does/Sho ws how/ Knows how/ Knows	Specific Competenc y	SLO/ Outcome	Blooms Domain	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formativ e Assessm ent	Sum ative Asse men
		Shows how		Kent's Repertory Locate rubrics related to Anatomy, Physiology and Psychology in Kent's repertory	Psychomo tor	Level II (Control)	Must know	Lecture, Small Group discussio n, Clinical teaching	MCQ, SAQ, Viva Voce, OSPE	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Knov	vs	Apply rubrics	Cognitive	Level II	Must	Lecture,	MCQ,	
			related to		(Understan	know	Small	SAQ, Viva	
			Anatomy,		d)		Group	Voce,	
			Physiology				discussio	OSPE	
			and				n, Clinical		
			Psychology				teaching		
			in						
			understandi						
			ng remedies						
			in Materia						
			Medica and						
			Repertory						



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8.List of Practical Topics

S. No	Name of Topic	Activity/ Practical	TL Me	hod
1	Basic Structure of Repertory showing arrangement of rubric of anatomy, physiology and psychology	Arrangement of Chapters and rubrics related	Integra BHMS	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

9. List of Recommended Books

- ❖ Dhawale ML (2000) Principles and Practice of Homoeopathy
- ❖ Hahnemann S (2017). Organon of Medicine 6th Edition
- ❖ Kent, JT- Repertory of the Homoeopathic Materia Medica (Sixth American Edition)
- Kishore, Jugal (2004) -Evolution of Homoeopathic Repertories and Repertorization
- Munir Ahmed R (2016). Fundamentals of Repertories: Alchemy of homeopathic methodology
- ❖ Patel, R.P (1998): The Art of Case Taking and Practical Repertorization
- Tiwari, Shashikant (2005) Essentials of Repertorisation



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

List of contributors:

1. Dr. Manish Arya

Professor and HOD, Department of Repertory, Dr. D.Y. Patil Homoeopathic Medical College and Research Centre, Pune

2. Dr. Lokanath Behera

Associate Professor& Head of the Department (Repertory) National Institute of Homoeopathy

3. Dr. Kamlesh Mehta

Former HOD, CMP College, Mumbai

4. Dr. Hema Parikh

Prof, MKSH, Karjan

5. Dr. Manisha Patel

HOD, Dr. R A Patel HMC, Mehsana

6. Dr. Uttara Agale

Reader, YMT, Kharghar



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University
An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Human physiology & Biochemistry)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Course- Human physiology & Biochemistry

Course code: Hom UG - PB

INDEX

S.No	Description	Page No
1	Preamble	02
2	Program Outcomes (PO)	03
3	Course Outcome (CO)	04
4	Teaching Hours	05
5	Course Content	09
6	Teaching Learning Methods	15
7	Content Mapping (Competencies Table)	16
8	Practical Topics	69
9	Assessment	71
10	List of Recommended Books	75
11	List of Contributors	76

TO THE TOTAL PROPERTY OF THE PARTY OF THE PA

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 128 of UGC Act 1956





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

1. PREAMBLE

Physiology studies the functional organization of man at several levels like atom, chemical, cells, tissues, organ systems and the whole body to understand fundamental mechanisms that operate in a living organism. The underlying goal is to explain the operations in a living organism.

Besides satisfying a natural curiosity about how humans function, the study of physiology is of central importance in medicine and related health sciences, as it underpins advances in our understanding of disease and our ability to treat it more effectively. It is also important from psychological and philosophical viewpoints, helping us to understand the different systems. Homoeopathic Philosophy postulates the force animating every cell as the Vital Force which helps in homoeostasis. When it is deranged due to web of causes, disease develops.

Homoeopath must understand Man in a holistic way which would help him to deliver the therapeutic action for the purpose of bringing about a cure. Understanding the structural organisation i.e., Anatomy along with psychological organisation go hand in hand. Their interplay maintains health and delivers optimum function for healthy living and progressing towards higher purpose as per Hahnemannian guidelines. Hence physiology needs to be integrated horizontally with Anatomy, Materia Medica, Organon of Medicine, Psychology & Pharmacy as well as vertically with Pathology, Surgery, Obstetrics & Gynaecology, Community Medicine, Practice of Medicine & Repertory for better grasp of health, disease and process of cure.

Advances in biochemical processes have been occurring at an astonishing pace. The action of homoeopathic medicines does occur at sub-cellular levels. Hence an in-depth understanding and correlation of the processes in health and disease can open up a whole new way of understanding Homoeopathic drugs and their far-reaching effects.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

2.PROGRAMME OUTCOMES:

At the end of the course of the undergraduate studies, the homoeopathic physician must

- 1) Develop the knowledge, skills, abilities and confidence as a primary care homoeopathic practitioner to attend to the health needs of the community in a holistic manner
- 2) Correctly assess and clinically diagnose common clinical conditions prevalent in the community from time to time
- 3) Identify and incorporate the socio-demographic, psychological, cultural, environmental & economic factors affecting health and disease in clinical work
- 4) Recognize the scope and limitation of homoeopathy in order to apply Homoeopathic principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community
- 5) Be willing and able to practice homoeopathy as per medical ethics and professionalism.
- 6) Discern the scope and relevance of other systems of medical practice for rational use of cross referrals and role of life saving measures to address clinical emergencies
- 7) Develop the capacity for critical thinking, self reflection and a research orientation as required for developing evidence based homoeopathic practice.
- 8) Develop an aptitude for lifelong learning to be able to meet the changing demands of clinical practice
- 9) Develop the necessary communication skills and enabling attitudes to work as a responsible team member in various healthcare settings and contribute towards the larger goals of national health policies such as school health, community health and environmental conservation.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. Course Outcomes (COs):

At the end of the course the student will be able to:

- 1. Discuss the Homoeopathic concept of health in relation to integrated body structure and functions.
- 2. Explain the normal functioning of the human body at all levels of organization.
- 3. Relate the concept of homoeostasis with relevant ideas in Anatomy, Materia medica and Organon of Medicine at BHMS I level.
- 4. Elucidate the physiological aspects of normal growth and development with focus on evolution.
- 5. Correlate micro functions at cellular level with macro functions at organ-system level.
- 6. Use necessary communication skills required for history-taking of the patient & relating various clinical findings in the patient.
- 7. Perform experiments in haematology, clinical physiology & biochemistry as required for the study of physiological phenomena and for assessment of normal function.
- 8. Identify the normal values of haematology, clinical physiology & biochemistry.
- 9. Perform clinical physiological examination under supervision.
- 10. Correlate knowledge of Organon & Materia Medica with Physiology.
- 11. Explain the integrated responses of the organ systems of the body to physiological and pathological stresses.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. TEACHING HOURS

Sr No.	Subject	Theoretical Lecture	Practical / Tutorial / Seminar / Clinical Posting
01	PHYSIOLOGY & BIOCHEMISTRY	325 hrs.	330 hrs.

Theory Wise Teaching Hours Distribution – 325 Hours

Sr. No	Paper-I	
	List of System	Teaching Hours
1	General Physiology	20
2	Bio Physics Science	15
3	Skin & The Integumentary System	15
4	Body fluids & Immune mechanism	35
5	Nerve Muscle physiology	15
6	Cardiovascular system	20
7	Respiratory and Environmental Physiology	25
8	Renal Physiology	20
	Total	165
Sr. No	Paper-II	•
	List of System	Teaching Hours
1	Central Nervous System	35
2	Endocrinology	30
3	Reproduction	15
4	Special Senses	20
5	Digestion and Nutrition	35
6	Biochemistry	25
	Total	160



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Practical / Clinical Physiology / OPD
Wise Teaching Hours Distribution –

330 Hours

Phys	siology – Practical – lab work					
No	Practical	Demonstration / Performance	Number of Teaching Hours			
HAEMATOLOGY						
1	Study of the Compound Microscope	Performance	05			
2.	Collection of Blood Samples	Performance	05			
3	Estimation of Haemoglobin Concentration	Performance	05			
4	Determination of Haematocrit	Demonstration	05			
5	Hemocytometry	Performance	05			
6	Total RBC Count	Performance	10			
7	Determination of RBC Indices	Demonstration	05			
8	Total Leucocytes Count (TLC)	Performance	10			
9	Preparation And Examination Of Blood Smear	Performance	10			
10	Differential Leucocyte Count (DLC)	Performance	10			
11	Absolute Eosinophil Count	Demonstration	05			
12	Determination of Erythrocyte Sedimentation Rate	Demonstration	05			
13	Determination of Blood Groups	Performance	05			
14	Determination of Bleeding Time and Coagulation Time Performance					
BIO	CHEMISTRY					
1	Demonstration of Uses Of Instruments Or Equipment	Demonstration	05			
2	Qualitative Analysis of Carbohydrates, Proteins And Lipids	Performance	10			
3	Normal Characteristics of Urine	Performance	04			
4	Abnormal Constituents of Urine	Performance	10			
5	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	Performance	05			
6	Liver Function Tests	Demonstration	04			
7	Kidney Function Tests	Demonstration	04			
8	Lipid Profile	Demonstration	04			
9	Interpretation and Discussion of Results of Biochemical Tests	Demonstration	04			
	Total	•	140			



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

CLII	NICAL PHYSIOLOGY							
1	Case Taking & Approach to pt	Performance	05					
2	General Concept Of Examination Performance							
3	Examination of muscles, joints,	Performance	10					
4	Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical Examination	Performance	15					
5	Nervous System- Clinical Examination	Performance	15					
6	Respiratory System- Clinical Examination, Spirometry, Stethography	Performance	15					
7	Special Senses- Clinical Examination	Performance	15					
8	Reproductive System- Diagnosis of Pregnancy	Performance	05					
9	Gastrointestinal System- Clinical Examination Performance							
	Total		100					
OPI	O – APPLIED PHYSIOLOGY							
1	OPD (Applied Physiology)	Demonstration	90					
	& Performance							
	TOTAL		90					

Semester Wise Distribution of Theory, Practical, Clinical Physiology & OPDs

Sr. No	Theory, Practical, Clinical Physiology & OPDs					
SEMESTER - 1						
Module 1.	Theory:					
Organization of the human body	General physiology					
	Bio Physics Science					
	Skin & The integumentary System					
	Clinical Physiology:					
	Case Taking & Approach to Patient					
	General concept of examination.					
Module 2	Theory:					
Principals of Support System &	Body Fluid & Immune Mechanism					
Movements with transportation	Nerve Muscles Physiology Page 1 of 98					

Page **1** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

Practical:

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



	Study of the Compound Microscope
	Collection of Blood Samples
	Estimation of Haemoglobin Concentration
	Determination of Haematocrit
	Haemocytometry
	Total RBC Count
	Determination of RBC Indices
	Total Leucocytes Count (TLC)
	Preparation And Examination Of Blood Smear
	Differential Leucocyte Count (DLC)
	Absolute Eosinophil Count
	Determination of Erythrocyte Sedimentation Rate
	Determination of Blood Groups
	Determination of Bleeding Time and Coagulation Time
	Clinical Physiology:
	Examination of muscles, joints,
4 th Month – 5 days PA	
6^{th} Month – 10 days TT – including Viva V	oce
	SEMESTER – 2
Module 3.	Theory:
Vital Maintenance of the human body	Cardiovascular System
	Respiratory & Environmental Physiology
	Clinical Physiology :-
	 Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical
	Examination
	 Respiratory System- Clinical Examination, Spirometry, Stethography
	OPD (Applied Physiology)
	Page 2 of 98



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Module 4.	Theory:				
Control system of the human body with	Central Nervous System				
continuity	Endocrinology				
	Clinical Physiology:				
	Nervous System- Clinical Examination				
	Special Senses- Clinical Examination				
	Reproductive System – Diagnosis of pregnancy				
	• OPD				
9 th Month – 5 days PA					
12 th Month – 10 days TT – including Viva Vo	oce				
	SEMESTER - 3				
Module 5.	Theory:				
Energy maintenance of human body	Reproductive System				
	Special Senses				
	Digestion System & Nutrition				
	Renal Physiology				
	Bio-Chemistry				
	Practical : -				
	Demonstration of Uses Of Instruments Or Equipment				
	Qualitative Analysis of Carbohydrates, Proteins And Lipids				
	Normal Characteristics of Urine				
	Abnormal Constituents of Urine				
	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood				
	Liver Function Tests				
	Kidney Function Tests				
	Lipid Profile				
	Interpretation and Discussion of Results of Biochemical Tests				
	Clinical Physiology :-				



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

•	Gastrointestinal System- Clinical Examination
---	---

OPD

14th Month – 5 days PA

18th Month – 12 days TT – including Viva Voce – University exam

5.COURSE CONTENT

- 1. The purpose of a course in physiology is to enable the students to learn the functions, processes and inter-relationship of the different organs and systems of the normal disturbance in disease so that the student is familiar with normal standards of reference while diagnosing deviations from the normal, and while treating the patients.
- 2. There can be no symptoms of disease without vital force animating the human organism and it is primarily the vital force which is maintaining state of health
- 3. Physiology shall be taught from the stand point of describing physical processes underlying them in health;
- 4. Applied aspect of every system including the organs is to be stressed upon while teaching the subject.
- 5. Correlation with Organon and philosophy especially the concept of health and its derangement the interplay of different cell, tissue organ and system, their representation in repertory and integration in HMM
- 6. There should be close co-operation between the various departments while teaching the different systems;



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



7. There

should be joint courses

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

between the two departments of anatomy and physiology so that there is maximum co-ordination in the teaching of these subjects;

8. Seminars should be arranged periodically and lecturers of anatomy, physiology and bio-chemistry should bring home the point to the students that the integrated approach is more meaningful.

THEORY:-

1. GENERAL PHYSIOLOGY:

- Introduction to cellular physiology
- Cell Junctions
- Transport through cell membrane and resting membrane potential Body fluids compartments
- Homeostasis

2. BIO-PHYSICAL SCIENCES

- Filtration Ultra-filtration Osmosis
- Diffusion Adsorption Hydrotropy, Colloid
- Donnan Equilibrium Tracer elements Dialysis
- Absorption Assimilation Surface tension

3. SKIN &THE INTEGUMENTARY SYSTEM

- Skin & Integumentary System
- Layers of Skin
- Function of Skin
- Sweat
- Body temperature and its regulation

4. BODY FLUID & IMMUNE MECHANISM

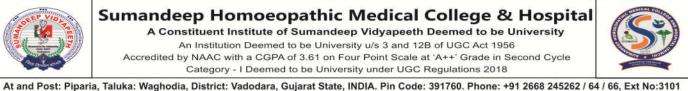
- Blood
- Plasma Proteins
- Red Blood Cells
- Erythropoiesis



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in



Haemoglobin

and Iron Metabolism



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Erythrocyte

Sedimentation Rate

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in

- Packed Cell Volume and Blood Indices
- Haemolysis and Fragility of Red Blood Cells
- White Blood Cell
- Immunity
- Platelets
- Haemostasis
- Coagulation of Blood
- Blood groups
- Blood Transfusion
- Blood volume
- Reticulo-endothelial System and Tissue Macrophage Lymphatic System and Lymph
- Tissue Fluid and Oedema

5. NERVE MUSCLE PHYSIOLOGY

- Physiological properties of nerve fibres
- Nerve fibre- types, classification, function, Degeneration and regeneration of peripheral nerves
- Neuro-Muscular junction
- Physiology of Skeletal muscle
- Physiology of Cardiac muscle
- Physiology of Smooth muscle
- EMG

6. CARDIO-VASCULAR SYSTEM

- Introduction to cardiovascular system Properties of cardiac muscle
- Cardiac cycle
- General principles of circulation Heart sounds
- Regulation of cardiovascular system
- Normal and abnormal Electrocardiogram (ECG)
- Cardiac output



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

pressure

- Radial Pulse
- Regional circulation- Cerebral, Splanchnic, Capillary, Cutaneous & skeletal muscle circulation.
- Cardiovascular adjustments during exercise

7. RESPIRATORY SYSTEM AND ENVIRONMENTAL PHYSIOLOGY

- Physiological anatomy of respiratory tract
- Mechanism of respiration: Ventilation, diffusion of gases
- Transport of respiratory gases Regulation of respiration Pulmonary Function Test
- High altitude and space physiology Deep sea physiology
- Artificial respiration
- Effects of exercise on respiration

8. CENTRAL NERVOUS SYSTEM

- Introduction to nervous system Neuron
- Neuroglia
- Receptors
- Synapse
- Neurotransmitters
- Reflex
- Spinal cord
- Somato-sensory system and somato-motor system Physiology of pain
- Brain stem, Vestibular apparatus
- Cerebral cortex
- Thalamus
- Hypothalamus
- Internal capsule
- Basal ganglia
- Limbic system

- Heart rate
- Arterial blood



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Cerebellum –
 Posture and equilibrium

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- Reticular formation
- Proprioceptors
- Higher intellectual function Electroencephalogram (EEG)
- Physiology of sleep
- Cerebro-spinal fluid (CSF) Autonomic Nervous System (ANS)

9. ENDOCRINOLOGY

- Introduction of endocrinology and importance of PNEI axis Hormones and hypothalamo- hypophyseal axis
- Pituitary gland
- Thyroid gland
- Parathyroid
- Endocrine functions of pancreas Adrenal cortex
- Adrenal medulla
- Endocrine functions of other organs

10. REPRODUCTIVE SYSTEM

- Male reproductive system-testis and its hormones; seminal vesicles, prostate gland, semen.
- Introduction to female reproductive system
- Menstrual cycle
- Ovulation
- Menopause
- Infertility
- Pregnancy and parturition Placenta
- Pregnancy tests
- Mammary glands and lactation Fertility
- Foetal circulation

11. SPECIAL SENSES

- Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction
- Ear: Auditory pathway, Mechanism of hearing, Auditory defects



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



• Sensation of taste: Taste receptors, Taste pathways

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

• Sensation of smell: Olfactory receptors, olfactory, pathways Sensation of touch

12. DIGESTIVE SYSTEM & NUTRITION

- Introduction to digestive system
- Composition and functions of digestive juices
- Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine
- Movements of gastrointestinal tract
- Gastrointestinal hormones
- Digestion and absorption of carbohydrates, proteins and lipids

13. RENAL PHYSIOLOGY

- Physiological anatomy of kidneys and urinary tract
- Fluid & electrolyte with acid base balance need to be include
- Renal circulation
- Urine formation: Renal clearance, glomerular filtration, tubular reabsorption, selective secretion, concentration of urine, acidification of urine
- Renal functions tests
- Micturition

14. BIO-CHEMISTRY THEORY

- Carbohydrates: (Chemistry, Metabolism, Glycolysis, TCA, HMP, Glycogen synthesis and degradation, Blood glucose regulation)
- Lipids: (Chemistry, Metabolism, Intestinal uptake, Fat transport, Utilization of stored fat, Activation of fatty acids, Beta oxidation and synthesis of fatty acids)
- Proteins: (Chemistry, Metabolism, Digestion of protein, Transamination, Deamination Fate of Ammonia, Urea cycle, End products of each amino acid and their entry into TCA cycle
- Enzymes: (Definition, Classification, Biological Importance, Diagnostic use, Inhibition)
- Vitamins: (Daily requirements, Dietary source, Disorders and physiological role)
- Minerals (Daily requirement, Dietary Sources, Disorders and physiological role) mineral metabolism
- Organ function tests



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018



PRACTICAL & CLINICAL PHYSIOLOGY:-

No	Practical	Demonstration / Performance
	Haematology	
1	Study of the Compound Microscope	Performance
2.	Collection of Blood Samples	Performance
3	Estimation of Haemoglobin Concentration	Performance
4	Determination of Haematocrit	Demonstration
5	Hemocytometry	Performance
6	Total RBC Count	Performance
7	Determination of RBC Indices	Demonstration
8	Total Leucocytes Count (TLC)	Performance
9	Preparation And Examination Of Blood Smear	Performance
10	Differential Leucocyte Count (DLC)	Performance
11	Absolute Eosinophil Count	Demonstration
12	Determination of Erythrocyte Sedimentation Rate	Demonstration
13	Determination of Blood Groups	Performance
14	Determination of Bleeding Time and Coagulation Time	Performance
	Biochemistry	
1	Demonstration of Uses Of Instruments Or Equipment	Demonstration
2	Qualitative Analysis of Carbohydrates, Proteins And Lipids	Performance
3	Normal Characteristics of Urine	Performance
4	Abnormal Constituents of Urine	Performance
5	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	Performance
6	Liver Function Tests	Demonstration
7	Kidney Function Tests	Demonstration
8	Lipid Profile	Demonstration
9	Interpretation and Discussion of Results of Biochemical Tests	Demonstration
	Clinical Physiology & OPD	
1	Case Taking & Approach to pt	Performance
2	General Concept Of Examination	Performance



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



3	Examination of muscles, joints,	Performance
4	Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical Examination	Performance
5	Respiratory System- Clinical Examination, Spirometry, Stethography	Performance
6	Nervous System- Clinical Examination	Performance
7	Special Senses- Clinical Examination	Performance
8	Reproductive System- Diagnosis of Pregnancy	Performance
9	Gastrointestinal System- Clinical Examination	Performance
10	OPD	Demonstration & Performance



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



6. TEACHING LEARNING METHODS

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Different teaching-learning methods must be apply for understanding holistic and integrated way of physiology. There has to be classroom lectures, small group discussions, case discussion where case based learning (CBL) and problem based learning (PBL). In the applied physiology, Case discussion (CBL-PBL) methods are helpful for students. AV – Methods for demonstration of physiological processes will be very helpful. In process of Clinical Physiology – DOAP (Demonstration – Observation – Assistance – Performance) is very well applicable.

Practical & Clinics are the best medium to demonstrate all physiological processes in objective ways. They help us to understand and explain the physiological signs. Haematological & Biochemistry practical are done in laboratory, where one can apply the DOAP (Demonstration – Observation – Assistance – Performance) & OSPE (Objective Structured Practical Examination) methods. All this should be recorded in the journal.

In the clinics / OPD / IPD / Bed side there shall be exposure of Clinical & Applied Physiology. These can be demonstrated by DOAP (Demonstration – Observation – Assistance – Performance) & OSCE (Objective Structured Clinical Examination) methods. These methods are more objective, and t will help students to develop the attitude as clinicians. In these type of exposure students has to observe the teachers or consultants and able to corelate what they have learned in clinical physiology classes. They do not have to examine the patient by themselves but only observe the teachers. They can keep the record of all physiological function which are disturbed.

Other Innovative methods include preparation of charts and models.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

7. CONTENT MAPPING (COMPETENCY TABLE)

SEMESTER - 1

Topic No 1

Theory General Physiology

Practical -

Clinical Physiology Case Taking & Approach to Patient

Learning Outcome: -

At the end of the chapter General Physiology, the student must be able to –

- Discuss the principles of cellular physiology.
- Classify cell junctions.
- Explain the process of transport through cell membrane
- Describe the resting membrane potential.
- Categorise body fluids compartments.
- Explain the concept of homeostasis

S.No	Generic competency	Subject area	Miller' s Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know/ desirable to know/ nice to know	TL method / media	Format ive Assess ment	Summ ative Assess ment	Integration - Horizontal / Vertical / Spiral
Hom UG-PB 1.1	Integration Of Information (K-1)	Introducti on & Cell	Knows	Definition & general introduction	Define Physiology.	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	MCQs	-	
Hom UG-PB 1.2			Knows How		Discuss the importance of learning physiology in a homoeopathic course	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	Viva Voce	Organon



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Н	om_			Knows	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
U	G-P	В		How	Internal &		Understand	Know	Small group		Viva	
1.	3				external		/ interpret		discussion		Voce	
	F											

Page **13** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



					environment of Body							
Hom UG-PB 1.4	Integration Of Information (K-1)	Homeosta sis	Knows How W	Describe and discuss the principles of homeostasis	Explain the regulation of internal environment	Cognitive	Level 2 Understand / interpret	Desirable to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Medicine Pathology Organon
Hom UG-PB 1.5			Knows How		Explain homoeostasis & it's control	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	LAQs, Viva Voce	
Hom UG-PB 1.6	Integration Of Information (K-1)	The Cellular Level Organisati	Knows How	Describe the structure and functions of a mammalian cell	Describe the structure of cell	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Anatomy Pathology
Hom UG-PB 1.7		011	Knows How		Describe the functions of cell	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology Organon
Hom UG-PB 1.8			Knows		List the organelles present in cell	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	
Hom UG-PB 1.9			Knows		Enumerate the functions of organelles	Cognitive	Level 1 (Remember / recall)	Must Know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Pathology
Hom UG-PB 1.10			Knows		List the name of intracellular junction	Cognitive	Level 1 (Remember / recall)	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 1.11			Knows How		Discuss the importance of intracellular Junction	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	MCQs	Viva Voce	Anatomy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **14** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration Of		Knows	To understand	Explain Passive	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB	Information		How	transport	transportation		Understand	Know	Small group		Viva	
1.12	(K-1)			mechanisms			/ interpret		discussion		Voce	
				across cell								
Hom			Vacuus	membranes	Fundain Astivo	Cognitivo	Laval 2	Dosirablata	Losturo	CAO ₀	CAO:	Diach amista.
Hom			Knows		Explain Active	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB			How		Transportation		Understand	Know	Small group		Viva	
1.13							/ interpret		discussion		Voce	
Hom			Knows		Explain Vesicular	Cognitive	Level 2	Nice to know	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB			How		Transportation		Understand		Small group		Viva	
1.14							/ interpret		discussion		Voce	
Hom	Information	Clinical &	Shows	To conduct	Demonstrate	Affective	Level 1	Must know	Demonstrati	Observ	DOPS	
UG-PB	Gathering,	Applied	How	History taking	history taking		Receiving		on, Role	ation		
1.15	Integration Of	Physiolog			process				Play			
	information,	у										
	Problem											
	Integration											
	(K-2)											



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No 2
Theory Bio Physics Science

Practical -

Clinical Physiology -

Learning Outcomes: -

Page **15** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

At the end of the chapter Bio Physics Science, the student must be able to –

- Define biophysics.
- Illustrate the biophysical activity across the cell membrane.
- Explain membrane potential.
- Describe the chemical bond & solution.

S.No	Generic competency	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know /	TL method / media	Formati ve Assessm	Summ ative Assess	Integration - Horizontal / Vertical /
								nice to know		ent	ment	Spiral
Hom UG-PB	Integration Of	Bio Physics	Knows	To understand the bio-	Define the terms Filtration&	Cognitive	Level 1 (Remember	Nice to know	Lecture, Small group	SAQs	SAQs, Viva	Biochemistry
Hom UG-PB 2.2	Information (K-1)	Science	Knows	Physical science of cell membrane	Ultrafiltration Define intra cellular communication	Cognitive	/ recall) Level 1 (Remember / recall)	Nice to know	discussion Lecture, Small group discussion	SAQs	Voce SAQs, Viva Voce	Biochemistry
Hom UG-PB 2.3			Knows		Define the terms adsorption & Absorption	Cognitive	Level 1 (Remember / recall)	Nice to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistry
Hom UG-PB 2.4			Knows		Define the terms Hydro trophy, Dialysis & Assimilation	Cognitive	Level 1 (Remember / recall)	Nice to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistry Medicine
Hom UG-PB 2.5			Knows		Define Surface Tension	Cognitive	Level 1 (Remember / recall)	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistry Medicine
Hom UG-PB 2.6	Integration Of Information		Knows How	Discuss the Membrane Physiology	Explain Action Potential	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistry
Hom UG-PB 2.7	(K-1)		Knows	&Membrane Potential	Define Donnan Equilibrium	Cognitive	Level 1 (Remember / recall)	Nice to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistry



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Knows	Define	Cognitive	Level 1	Desirable to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB		Transmembrane		(Remember	Know	Small group		Viva	
2.8		Potential		/ recall)		discussion		Voce	

Page **16** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



				7		ı			,			,
Hom			Knows		Explain nerve	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	
UG-PB			How		action potential		Understand		Small group		Viva	
2.9							/ interpret		discussion		Voce	
Hom			Knows		Define Tracer	Cognitive	Level 1	Nice to	Lecture,	SAQs	SAQs,	
UG-PB					Elements		(Remember	know	Small group		Viva	
2.10							/ recall)		discussion		Voce	
Hom			Knows		Define	Cognitive	Level 1	Nice to	Lecture,	SAQs	SAQs,	
UG-PB					Rhythmicity of		(Remember	know	Small group		Viva	
2.11					some excitable		/ recall)		discussion		Voce	
					tissues							
Hom	Integration	The	Knows	Understand	Describe the	Cognitive	Level 2	Nice to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB	Of	Chemica	How	the chemical	Ionic Bond		Understand	know	Small group		Viva	,
2.12	Information	l Level		bonds			/ interpret		discussion		Voce	
	(K-1)	Organis	.,		5 " "		•			64.0	64.0	B: 1 : .
Hom	, ,	ation	Knows		Describe the	Cognitive	Level 2	Nice to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB			How		covalent bond		Understand	know	Small group		Viva	
2.13							/ interpret		discussion		Voce	
Hom			Knows		Describe the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Biochemistry
UG-PB			How		Hydrogen Bond		Understand	know	Small group		Voce	
2.14							/ interpret		discussion			
Hom	Integration		Knows	Understand	Define the terms	Cognitive	Level 1	Desirable to	Lecture,	MCQs	SAQs,	Biochemistry
UG-PB	Of			the inorganic	Colloid, Solution		(Remember	know	Small group		Viva	
2.15	Information			Compound &	& Suspension		/ recall)		discussion		Voce	
Hom	(K-1)		Knows	Solution	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB			How		characteristics of		Understand	Know	Small group		Viva	
2.16					acids, Base &		/ interpret		discussion		Voce	
					Salts							
Hom			Knows		Discuss acid -	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Biochemistry
UG-PB			How		base balance &	_	Understand		Small group		Viva	
2.17					its application to		/ interpret		discussion		Voce	
					the concept of							
					pH							
Hom			Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Biochemistry
UG-PB			How		maintaining of		Understand		Small group		Viva	
2.18					pH: Buffer		/ interpret		discussion		Voce	
					System		,					
		1	<u> </u>		0,000					<u> </u>		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **17** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No 3

Theory Skin & The Integumentary System

Practical -

Clinical Physiology Demonstration of General Examination

Learning Outcomes: -

At the end of the chapter Skin & the Integumentary System, the student must be able to –

- Discuss the functions of skin, nail, and hair.
- Conduct examination of the Integumentary System under supervision.

S.No	Generic	Subject	Miller's	Specific	Specific Learning	Bloom's	Guilbert's	Must know/	TL method /	Format	Summat	Integration
	competency	area	Level	competency	Objectives /	domain	level	desirable to	media	ive	ive	- Horizontal
					outcomes			know / nice		Assess	Assessm	/ Vertical /
								to know		ment	ent	Spiral



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Integration Of	Skin &	Knows	Understand the	Discuss layers of	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Information	The	How	Structure &	skin with their		Understand		Small group		Viva	Medicine
3.1	(K-1)	Integum		function of Skin	functions		/ interpret		discussion		Voce	Organon

Page **18** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



		entary System										Materia Medica Pharmacy
Hom			Knows		Relate the	Cognitive	Level 2	Must Know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB			How		structure of hair		Understand		Small group		Viva	
3.2					with its function		/ interpret		discussion		Voce	
Hom			Knows		Relate the	Cognitive	Level 2	Desirable To	Lecture,	SAQs	SAQs,	Anatomy
UG-PB			How		structure of nail		Understand	Know	Small group		Viva	
3.3					with its function		/ interpret		discussion		Voce	
Hom			Knows		Relate the	Cognitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB			How		structure of		Understand		Small group		Viva	
3.4					different glands		/ interpret		discussion		Voce	
					of skin with their							
					functions							
Hom			Knows		Describe the	Cognitive	Level 2	Must Know	Lecture,	MCQs	SAQs,	
UG-PB			How		glands of skin		Understand		Small group		Viva	
3.5							/ interpret		discussion		Voce	
Hom			Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB			How		regulation of		Understand		Small group		Viva	
3.6					body		/ interpret		discussion		Voce	
					temperature							
					through skin							
Hom	Information	Clinical	Shows	To demonstrate	Demonstrate the	Psycho	Level 1	Must know	DOAP	Observ	OSCE	Medicine
UG-PB	Gathering,	&	How	General	examination of	Motor	Observe /			ation		
3.7	Integration Of	Applied		examination	Skin & Mucus		Imitate					
	information,	Physiolo			Membrane							
Hom	Problem	gy	Shows		Demonstrate the	Psycho	Level 1	Must know	DOAP	Observ	OSCE	Medicine
UG-PB	Integration		How		examination of	Motor	Observe /			ation		
3.8	(K-2)				Conjunctive, Nail		Imitate					
-					& Glands							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **19** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No 4

Theory Nerve Muscle Physiology

Practical -

Clinical Physiology Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters

Perform Ergography, Examination of muscles, joints,

Learning Outcomes: -

At the end of the chapter Nerve Muscle Physiology, the student must be able to –

- Discuss the properties and functions of neurons.
- Illustrate a neuromuscular junction.
- Classify muscle fibres.
- Describe the properties of skeletal, cardiac, and smooth muscle fibres.
- Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters.
- Perform Ergography under supervision.

S.No	Generic competency	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal / Vertical / Spiral
Hom	Integration	Nerve	Knows	To understand	Define Neuron	Cognitive	Level 1	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	Muscle		the functional	Classify neurons		(Remember/		Small group		Viva	
4.1	Information	Physiol		anatomy of			recall)		discussion		Voce	
Hom	(K-1)	ogy	Knows	Nerve fibers	Explain	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Anatomy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



E-mai	l ld: princip	oalshmch@suman	deepvidyape	eethdu.edu.i	n, info@sumandeep	ovidyapeethdu.edu.in	Website: www	v.sumandeepvi	dyapeethdu.edu.ir	1			
	UG-PB			How		structure and		Understand		Small group	Viva		
	4.2							/ interpret		discussion	Voce		
						Pag	ge 20 of 98						
													_
												I	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



				function of neuroglia							
Hom UG-PB 4.3	Integration Of Information (K-1)	Knows	To understand the physiological properties of nerve fibers	Define the terms Excitability & Conductivity	Cognitive	Level 1 (Remember/ recall)	Desirable To Know	Lecture, Small group discussion	SAQs	SAQs Viva Voce	
Hom UG-PB 4.4		Knows How	nerve libers	Discuss graded & action potential	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	
Hom UG-PB 4.5	Integration Of Information	Knows How	To understand the degeneration	Discuss the causes & grade of injury	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Medicine
Hom UG-PB 4.6	Information (K-1)	Knows How	& regeneration of neuron	Identify the stages of degeneration	Cognitive	Level 2 Understand / interpret	Desirable To Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology
Hom UG-PB 4.7		Knows How		Discuss the stages of regeneration	Cognitive	Level 2 Understand / interpret	Desirable To Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 4.8	Integration Of Information (K-1)	Knows How	To describe Neuromuscula r Junction	Illustrate the Structure of Neuro-Muscular Junction	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 4.9		Knows How		Discuss the Neuromuscular Transmission	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	SAQs	Viva Voce	Anatomy
Hom UG-PB 4.10		Knows How		Discuss Disorders of neuromuscular Junction	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion, CBL, PBL	MCQs	SAQs, Viva Voce	Medicine



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	To understand	Illustrate the	Cognitive	Level 2	Desirable To	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	the	mechanism of		Understand	Know	Small group		Viva	
4.11	Information		physiological	skeletal muscle		/ interpret		discussion		Voce	
	(K-1)		properties of	contraction.							
			Skeletal	Describe the							
			Muscle	general							
				mechanism of							
				muscle							
				contraction.							
Hom		Knows		Discuss	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB		How		Molecular		Understand		Small group		Voce	
4.12				mechanism		/ interpret		discussion			
Hom		Knows		Discuss	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Anatomy
UG-PB		How		Energetic of		Understand		Small group		Voce	
4.13				muscle		/ interpret		discussion			
				contraction							
Hom	1	Knows		Discuss	Cognitive	Level 2	Desirable To	Lecture,	SAQs	SAQs,	
UG-PB		How		Excitation of		Understand	Know	Small group		Viva	
4.14				skeletal muscle		/ interpret		discussion		Voce	
Hom	Integration	Knows	To understand	Explain	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	Of	How	the	Contraction of		Understand		Small group		Viva	
4.15	Information		physiological	smooth muscle		/ interpret		discussion		Voce	
	(K-1)		properties of								
Hama	4	V a a v v a	Smooth	Francis Names	Caraitina	Level 2	Desirable To	Lastina	SAQs	CAO-	Medicine
Hom UG-PB		Knows	Muscle	Explain Nervous & hormonal	Cognitive	Understand		Lecture,	SAUS	SAQs, Viva	Medicine
4.16		How		control of			Know	Small group discussion		Voce	
4.16				smooth muscle		/ interpret		aiscussion		voce	
				contraction							
Hom	Intogration	l/n out s	To understand		Cognitivo	Level 2	Must know	Looturo	SAQs	1.400	Anatamy
Hom UG-PB	Integration Of	Knows	the	Illustrate Functional	Cognitive	Understand	IVIUST KIIOW	Lecture,	SAUS	LAQs, Viva	Anatomy
	Information	ПОМ						Small group		-	
4.17			physiological	Anatomy of		/ interpret		discussion		Voce	
	(K-1)		properties of	cardiac Muscle							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	Cardiac	Explain process	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Anatomy
UG-PB		How	Muscle	of excitability &		Understand		Small group		Viva	
4.18				contractility		/ interpret		discussion		Voce	

Page 22 of 98



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Hom			Knows		Explain	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB			How		properties of		Understand		Small group		Viva	
4.19					cardiac muscle		/ interpret		discussion		Voce	
Hom			Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	SAQs,	Medicine
UG-PB			How		disorders of		Understand		Small group		Viva	
4.20					Skeletal		/ interpret		discussion		Voce	
					Muscles							
Hom	Information	Clinical	Shows	Demonstrate	Measure the	Psycho	Level 2	Must Know	Demonstrati	Observ	OSCE	Medicine
UG-PB	Gathering,	&	How	effect of mild,	parameters of	Motor	Control		on	ation		
4.21	Integration	Applied		moderate and	cardio-							
	Of	Physiol		severe	pulmonary							
	information,	ogy Of		exercise and	changes during							
	Problem	Muscle		record	exercise							
	Integration			changes in								
	(K-2)			cardio -								
				respiratory								
				parameters								
Hom			Shows	Perform	Demonstrate	Psycho	Level 1	Nice to know	Demonstrati	Observ	OSCE	Medicine
UG-PB			How	Ergography	the sequence of	Motor	Observe /		on	ation		
4.22					performing		Imitate					
					ergography.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No	5
Theory	Body Fluid& Immune Mechanism
Practical	Hematology
Clinical Physiology	

Learning Outcomes: -

At the end of the chapter on Body Fluid & Immune System & Hematology, the student must be able to –

- Describe the composition and functions of blood components
- Describe the origin, Forms, Variations and functions of plasma Protein
- Illustrate the synthesis of Haemoglobin
- Describe RBC formation (erythropoiesis) and its regulation
- Describe WBC formation (granulopoiesis) and its regulation
- Classify Anaemias & Jaundice
- Explain the role of lymphoid tissues in immune responses
- Classify different types of immunity
- Describe the development and regulation of immunity.
- Explain the formation and functions of platelets.
- Illustrate the physiological basis of haemostasis
- Describe different blood groups
- Discuss the clinical importance of blood grouping
- Describe blood transfusion
- Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



S.No	Generic competenc y	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summa tive Assess ment	Integration - Horizontal, Vertical / Spiral
Hom UG-PB 5.1	Integration Of Information (K-1)	Blood Fluid and It's Constitue	Knows How	Describe the composition and functions of blood	Discuss the composition of Blood	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	LAQs, Viva Voce	Anatomy
Hom UG-PB 5.2		nts	Knows How	- components	Describe the function of blood	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Anatomy Pathology Medicine
Hom UG-PB 5.3			Knows		Define serum	Cognitive	Level 1 recall	Must Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology Medicine
Hom UG-PB 5.4			Knows How		Explain the difference between serum & Plasma	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Biochemistr
Hom UG-PB 5.5	Integration Of Information (K-1)		Knows How	Describe the origin, Forms, Variations and functions of	Discuss the origin of plasma protein	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistr
Hom UG-PB 5.6			Knows How	- plasma Protein	Explain the forms and functions of plasma proteins	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Pathology
Hom UG-PB 5.7			Knows How		Identify the relation of diet to plasma protein	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 5.8	Integration Of Information (K-1)		Knows How	Describe and discuss the synthesis and	Illustrate the structure of Haemoglobin	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Biochemistr



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **25** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	1	Γ.,		5			B. A 1.		646	646	D: 1
Hom		Knows	functions of	Discuss the	Cognitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	Biochemistr
UG-PB		How	Haemoglobin	synthesis of		Understand		Small group		Viva	
5.9				Haemoglobin		/ interpret		discussion		Voce	
Hom		Knows		Define Normal	Cognitive	Level 1	Must know	Lecture,	SAQs	LAQs,	Biochemistr
UG-PB				function of		recall		Small group		Viva	Materia
5.10				Haemoglobin				discussion		Voce	Medica
Hom		Knows		State normal	Cognitive	Level 1	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB				Value of		recall		Small group		Viva	
5.11				different				discussion		Voce	
				varieties of							
				Haemoglobin							
Hom		Knows		Explain Iron	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistr
UG-PB		How		metabolism		Understand	Know	Small group		Viva	
5.12						/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe RBC	Discuss the	Cognitive	Level 2	Desire to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	formation	normal structure		Understand	Know	Small group		Viva	Pathology
5.13	Information		(erythropoiesis	of RBC with its		/ interpret		discussion		Voce	Medicine
	(K-1)		& its	morphology		-					
Hom		Knows	regulation) and	discuss stages	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How	its functions	and regulation of		Understand		Small group		Viva	
5.14				erythropoiesis		/ interpret		discussion		Voce	
						•					
Hom		Knows		Discuss the fate	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		of RBC		Understand	Know	Small group		Viva	
5.15						/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		hemolysis		Understand	Know	Small group		Viva	FMT
5.16				,		/ interpret		discussion,		Voce	
								CBL			
Hom	Information	Knows	Describe	Classify the	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	Medicine,
UG-PB	Gathering	How	different types	anemia		Understand		Small group		Viva	Pathology
5.17	,Integration		of anemia &	according to		/ interpret		discussion,		Voce	j
	Of		Jaundice	their morphology		,,		CBL, PBL			
	information			& etiology				,			
		L	1							1	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **26** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	, Problem	Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	MCQs	LAQs,	Medicine,
UG-PB	Integration	How		different anemia		Understand	know	Small group		Viva	Pathology
5.18	(K-2)					/ interpret		discussion,		Voce	Materia
								CBL, PBL			Medica
											Repertory
Hom		Knows		Enumerate the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		different		Understand	know	Small group		Viva	
5.19				abnormal		/ interpret		discussion,		Voce	
				functions in				CBL, PBL			
				anaemia							
Hom		Knows		Discuss the fate	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine,
UG-PB		How		of bilirubin		Understand	Know	Small group		Viva	Pathology
5.20						/ interpret		discussion,		Voce	Materia
								CBL			Medica
											Repertory
Hom		Knows		Explain	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Materia
UG-PB		How		Physiological		Understand	Know	Small group		Viva	Medica
5.21				Jaundice		/ interpret		discussion,		Voce	Repertory
								CBL			
Hom		Knows		Explain Jaundice	Cognitive	Level 2	Nice to Know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		in new-born		Understand		Small group		Viva	Materia
5.22						/ interpret		discussion,		Voce	Medica
								CBL			Repertory
Hom	Integration	Knows	Describe WBC	Explain different	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB	Of	How	formation	condition of		Understand		Small group		Viva	Pathology
5.23	Information		(granulopoiesis	leucocyte count		/ interpret		discussion		Voce	
	(K-1)) and its	in our body							
Hom		Knows	regulation	Classify different	Cognitive	Level 2	Must Know	Lecture,	SAQs	LAQs,	Pathology
UG-PB		How		type of WBCs		Understand		Small group		Viva	
5.24						/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Pathology
UG-PB		How		function of WBCs		Understand		Small group		Viva	Medicine
5.25				as per their		/ interpret		discussion		Voce	
				classification							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Pathology	
UG-PB		How	phagocytosis		Understand	Know	Small group		Viva		
5.26					/ interpret		discussion		Voce		

Page **27** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	
UG-PB		How		stages of		Understand		Small group		Viva	
5.27				leucopoiesis with		/ interpret		discussion		Voce	
				its regulation							
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		conditions that		Understand	Know	Small group		Viva	Surgery
5.28				cause abnormal		/ interpret		discussion		Voce	Pathology
				value of							
				leucocyte							
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Of	How	formation of	structure &		Understand		Small group		Viva	Pathology
5.29	Information		platelets,	function of		/ interpret		discussion		Voce	
	(K-1)		functions and	Platelets							
Hom		Knows	variations.	Describe the	Cognitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	
UG-PB		How		Thrombopoiesis		Understand		Small group		Viva	
5.30						/ interpret		discussion		Voce	
Hom		Knows		Discuss its count	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB		How		& variation of		Understand		Small group		Viva	
5.31				platelets		/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe the	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Pathology
UG-PB	Of	How	physiological	process of		(Understand		Small group		Viva	Materia
5.32	Information		basis of	coagulation		/interpret)		discussion		Voce	Medica
	(K-1)		haemostasis								
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		mechanism of		Understand	Know	Small group		Viva	
5.33				haemostasis		/ interpret		discussion		Voce	
Hom		Knows		Explain stages of	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Pathology
UG-PB		How		clotting		Understand		Small group		Viva	Medicine
5.34				mechanism		/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe the	Discuss	Cognitive	Level 2	Desirable to	Lecture,	MCQs	SAQs,	Medicine
UG-PB	Of	How	clinical	hemorrhagic		Understand	Know	Small group		Viva	
5.35	Information		importance of	disorder		/ interpret		discussion,		Voce	
	(K-1)		blood					CBL			
			coagulation								



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **28** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG-PB 5.36	Integration Of Information		Knows	Describe different blood groups	Classify the ABO blood group system	Cognitive	Level 1 Recall	Must Know	Lecture, Small group discussion	SAQs	LAQs Viva Voce	Pathology
Hom UG-PB 5.37	(K-1)		Knows How		Discuss Landsteiner's Law	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology Medicine
Hom UG-PB 5.38	Integration Of Information		Knows How	Discuss the clinical importance of	Describe Rhesus Blood Group	Cognitive	Level 2 Understand / interpret	Must Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 5.39	(K-1)		Knows How	blood grouping	Discuss Rh Incompatibility	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Medicine, Pathology Obstetrics & Gynaecolog
Hom UG-PB 5.40	Integration Of Information (K-1)		Knows How	Describe blood transfusion	Discuss the importance of Blood transfusion	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Surgery Medicine
Hom UG-PB 5.41			Knows		List causes for Blood transfusion reaction	Cognitive	Level 1 Recall	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology Medicine
Hom UG-PB 5.42	Integration Of Information (K-1)	Immune Mechanis m	Knows How	Explain the role of lymphoid tissues in immune	Discuss Tissue Macrophage system	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology Medicine
Hom UG-PB 5.43			Knows How	responses	Describe the morphology and functions of Lymphocytes & Plasma cell	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Pathology
Hom UG-PB 5.44			Knows How		Explain the functions of spleen	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Medicine



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page 29 of 98



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Hom			Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB			How		formation and	Cognitive	Understand	Know	Small group	JAQJ	Viva	Wiedicine
5.45			TIOW		functions of		/ interpret	KIIOW	discussion		Voce	
5.45					Lymph		/ interpret		uiscussion		VOCE	
Hom	Integration		Knows	Define and	Define Immunity	Cognitive	Level 1	Must know	Lecture,	MCQs	SAQs,	Pathology
UG-PB	Of		KIIOWS	classify	Define infinitionity	Cognitive	(Remember/		Small group	ivicus	Viva	Medicine
5.46	Information			different types			recall)		discussion		Voce	Organon
Hom	(K-1)		Knows	of immunity.	Explain different	Cognitive	Level 2	Desirable to	Lecture,	MCQs	LAQs,	Pathology
UG-PB	(K-1)		How	or initiatiney.	type of immunity	Cognitive	Understand	Know	Small group	ivicus	Viva	Medicine
5.47			TIOW		type of illillianity		/ interpret	KIIOW	discussion		Voce	Wiedicine
	Integration		Knows	Describe the	Discuss	Comitive	Level 2	Must Know	Lecture,	SAQs	SAQs,	Dathalası
Hom UG-PB	Integration Of				development of	Cognitive	Understand	IVIUST KNOW	,	SAUS	Viva	Pathology
	Information		How	development of immunity	immune				Small group discussion			
5.48							/ interpret		discussion		Voce	
11	(K-1)		14	and its	response	C iti	1 1 2	NA Lu-	Lastina	640-	640-	Dath dans
Hom			Knows	regulation	Discuss Auto -	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Pathology
UG-PB			How		immunity &		Understand		Small group		Viva	Medicine
5.49					Hypersensitivity		/ interpret		discussion		Voce	
Hom			Knows		Discuss	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Pathology
UG-PB			How		Immunodeficienc		Understand	know	Small group		Viva	Medicine
5.50					y Diseases		/ interpret		discussion		Voce	
Hom	Information	Hematolo	Shows	Estimate Hb,	Estimate Hb in	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB	Gathering	gy	How	RBC, TLC, RBC	the given sample	Motor	(Control)			ation	st	Medicine
5.51	,Integration	Practical		indices, DLC,								
Hom	Of		Knows	Blood groups,	Interpret results	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB	information		How	BT/CT	of Hb estimation	COSITITO	Understand	Widst Kilow	20711	ation	st	Medicine
5.52	, Problem		11011		or rib estimation		/ interpret			ation	30	Wiedienie
Hom	Integration		Shows	-	Perform RBC	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB	(K-2)		How		Total Count	Motor	(Control)	Widst Know	20711	ation	st	Tuthology
5.53			11011		Estimation	1110101	(66116161)			ation	30	
Hom			Knows	1	Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB			How		results of RBC	COSITIONE	Understand	TVIGSE KITOVV	DOA	ation	st	ratifology
5.54			11000		Total Count		/ interpret			ation	31	
J.J4					Estimation		, interpret					
					LStilliatiOII							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Shows	Perform WBC	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology	
UG-PB		How	Total Count	Motor	(Control)			ation	st	Medicine	
5.55			Estimation								

Page **30** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



·	1	1.,						5015		0 11	5 .1 .1
Hom		Knows		Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		results of WBC		Understand			ation	st	Medicine
5.56				Total Count		/ interpret					
				Estimation							
Hom		Shows		Perform WBC DC	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		estimation	Motor	(Control)			ation	st	
5.57											
Hom		Knows		Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		results of WBC		Understand			ation	st	
5.58				DC estimation		/ interpret					
Hom	- 	Shows		Record RBC	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		indices	Motor	(Control)			ation	st	Medicine
5.59											
Hom	1	Knows		Evaluate RBC	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		indices		Understand			ation	st	Medicine
5.60						/ interpret					
Hom	1	Shows		Perform Blood	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		Group	Motor	(Control)			ation	st	
5.61				identification							
Hom	1	Shows		Perform BT / CT	Psycho	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How			Motor	(Control)			ation	st	
5.62											
Hom	1	Knows		Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		results of BT / CT		Understand			ation	st	
5.63				•		/ interpret					
Hom	1	Shows	1	Record ESR	Psycho	Level 2	Must know	Demonstrati	Observ	Checkli	Pathology
UG-PB		How			Motor	(Control)		on	ation	st	J ,
5.64						, ,					
Hom	1	Knows	1	Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology
UG-PB		How		results of ESR	5	Understand	-		ation	st	- 3,
5.65				estimation		/ interpret					
Hom	Information	Shows	Describe steps	Record	Psycho	Level 1	Nice to know	Demonstrati	Observ	Observ	Pathology
UG-PB	Gathering	How	for reticulocyte	Reticulocyte	Motor	(Observe /		on	ation	ation	
				•							
5.66				count		Imitate)					



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	,Integration	Knows	and platelet	Interpret the	Cognitive	Level 2	Must know	DOAP	Observ	Checkli	Pathology	
UG-PB	Of	How	count	results of		Understand			ation	st	Medicine	
5.67	information					/ interpret						
	, Problem					-						

Page **31** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Integration (K-2)		Reticulocyte count								
Hom UG-PB 5.68		Shows How	Record Platelet Count	Psycho Motor	Level 1 (Observe / Imitate)	Nice to know	Demonstrati on	Observ ation	Observ ation	Pathology	
Hom UG-PB 5.69		Knows How	Interpret the results of Platelet Count	Cognitive	Level 2 Understand / interpret	Must know	DOAP	Observ ation	Checkli st	Pathology Medicine	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

SEMESTER - 2

Learning Outcomes:
TopictNe end of chapter on Cardio Vascular System & its examination, the student must be able to —

Theory Describe the function Vascular System heart, with respect to its chambers, valves, input and output vessels, AV ring and electrical Practical Conducting system, Coronary supply.

Clinical Physiology de Cardio-Vascular System Blood Pressure Recording Radial Pulse FCG. Clinical Examination Clinical Physiology de Cardio Physiology de Ca

- Discuss the events occurring during the cardiac cycle
- Illustrate the haemo-dynamics of circulatory system
- Explain the regulation of cardiac output
- Describe the normal mode of conduction of the cardiac impulse
- Explain coronary, cerebral, capillary, pulmonary& splanchnic circulation
- List the major diseases of cardiovascular system,

Page **32** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



- Record Pulse, blood pressure, and ECG
- Perform the clinical examination of cardiovascular system

S.No	Generic competency	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal / Vertical / Spiral
Hom UG-PB 6.1	Integration Of Information	Cardio Vascular System	Knows How	Describe the functional anatomy of	Describe the chambers of heart	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Human Anatomy
Hom UG-PB 6.2	(K-1)		Knows How	heart including chambers, Sounds	Discuss the valves & the walls of heart	Cognitive	Level 2Understan d / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Human Anatomy
Hom UG-PB 6.3	Integration Of Information		Knows How	Describe Pacemaker tissue and	Explain the pacemaker of heart.	Cognitive	Level 2 Understand / interpret	Desirable to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Medicine – Cardiology
Hom UG-PB 6.4	(K-1)		Knows How	conducting system.	Describe the conducting system	Cognitive	Level 2 Understand / interpret	Must Know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Anatomy
Hom UG-PB 6.5	Integration Of Information (K-1)		Knows How	Describe the properties of cardiac muscle including its	Discuss the Morphological Properties of heart	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Anatomy
Hom UG-PB 6.6			Knows How	morphology, electrical, mechanical and metabolic	Discuss the electrical properties of heart	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 6.7			Knows How	functions	Discuss the mechanical & metabolic Properties of heart	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	SAQs	Viva Voce	Anatomy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Integration	Knows	Discuss the	Define Cardiac	Cognitive	Level 1	Must know	Lecture,	MCQs	SAQs,	Medicine	
UG-PB	Of		events	cycle		(Remember		Small group		Viva		
6.8			occurring			/ recall)		discussion		Voce		

Page **33** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Information	Knows	during the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB	(K-1)	How	cardiac cycle	events of cardiac		Understand		Small group		Viva	
6.9				cycle		/ interpret		discussion		Voce	
Hom	1	Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		pressure changes		Understand		Small group		Viva	
6.10				during cardiac		/ interpret		discussion		Voce	
				cycle							
Hom		Knows		Explain the ECG	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		changes during		Understand		Small group		Viva	
6.11				each cardiac		/ interpret		discussion		Voce	
				cycle							
Hom	Integration	Knows	Discuss heart	Define Heart	Cognitive	Level 1	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB	Of		sounds	Sound		(Remember		Small group		Viva	
6.12	Information					/ recall)		discussion		Voce	
Hom	(K-1)	Knows		Explain different	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	
UG-PB		How		heart sounds		Understand		Small group		Viva	
6.13				with their		/ interpret		discussion		Voce	
				measurement							
				technique							
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		clinical		Understand		PBL, Small		Viva	Surgery
6.14				importance of		/ interpret		group		Voce	
				Murmurs & Triple				discussion			
				heart sound							
Hom	Integration	Knows	Describe the	Discuss normal	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB	Of	How	physiology of	ECG with it's		Understand		Small group		Viva	
6.15	Information		electrocardiogr	waves and		/ interpret		discussion		Voce	
	(K-1)		am (E.C.G),	intervals							
Hom		Knows		Explain in	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	
UG-PB		How		electrocardiograp		Understand		Small group		Viva	
6.16				hy with unipolar		/ interpret		discussion		Voce	
				& bipolar							
				recording.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Information	Knows	Discuss	Classify	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Gathering	How	arrhythmia,	arrythmias		Understand		PBL, Small		Viva	
6.17	,Integration		heart block and			/ interpret		group		Voce	
	Of		myocardial					discussion			

Page **34** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	information	Knows	Infarction	Explain Different	Cognitive	Level 2	Desirable to	Lecture, PBL	SAQs	SAQs,	Medicine
UG-PB	Problem	How		degree of heart		Understand	Know	, Small		Viva	Pathology
6.18	Integration			block. Explain		/ interpret		group		Voce	Materia
	(K-2)			Myocardial				discussion			Medica
				Infarction							Repertory
Hom	Integration	Knows	Describe	List the functions	Cognitive	Level 1	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of		haemo-	of circulation		Recall	know	Small group		Viva	
6.19	Information		dynamics of					discussion		Voce	
	(K-1)		circulatory	C			5		640	640	
Hom		Knows	system	State the	Cognitive	Level 1	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB				functions of heart		Recall	know	Small group		Viva	
6.20	_							discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	MCQs	Viva	
UG-PB		How		pressure changes		Understand		Small group		Voce	
6.21				in vascular		/ interpret		discussion			
				system							
Hom		Knows		Recall the	Cognitive	Level	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB				structure of the		1Recall	Know	Small group		Viva	
6.22				blood vessels				discussion		Voce	
Hom	Integration	Knows	Describe the	Identify the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Of	How	factors	factors affecting		Understand		Small group		Viva	
6.23	Information		affecting heart	heart rate and		/ interpret		discussion		Voce	
	(K-1)		rate,	how it affects							
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		mechanism of		Understand	know	Small group		Viva	
6.24				control of heart		/ interpret		discussion		Voce	
				rate							
Hom	Integration	Knows	Describe the	Define cardiac	Cognitive	Level 1	Must know	Lecture,	SAQs	LAQs	Materia
UG-PB	Of		regulation of	output		(Remember		Small group		Viva	Medica
6.25	Information		cardiac output			/ recall)		discussion		Voce	Repertory
	(K-1)										
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		distribution of		Understand	Know	Small group		Viva	
6.26				cardiac output		/ interpret		discussion		Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **35** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		factors affecting		Understand		Small group		Viva	
6.27				cardiac output		/ interpret		discussion		Voce	
Hom		Knows		Discuss in detail	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		the Control		Understand		Small group		Viva	
6.28				mechanism of		/ interpret		discussion		Voce	
				cardiac output							
Hom	Integration	Knows	Understand the		Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB	Of	How	blood pressure	importance of		Understand		PBL, Small		Viva	
6.29	Information		regulation	blood pressure		/ interpret		group		Voce	
	(K-1)							discussion			
Hom		Knows		State the factors	Cognitive	Level 1	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB				affecting arterial		Recall		Small group		Viva	
6.30				blood pressure				discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Must Know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		determinants of		Understand		Small group		Viva	
6.31				arterial blood		/ interpret		discussion		Voce	
				pressure							
Hom		Knows		Describe	Cognitive	Level 2	Must know	PBL,	SAQs	LAQs,	Medicine
UG-PB		How		regulation of		Understand		Lecture,		Viva	
6.32				arterial blood		/ interpret		Small group		Voce	
				pressure				discussion			
Hom	Integration	Knows	Describe	Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB	Of	How	coronary,	capillary		Understand		Small group		Voce	
6.33	Information		cerebral,	circulation		/ interpret		discussion			
	(K-1)		capillary,								
Hom		Knows	pulmonary &	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How	splenic	Coronary		Understand	know	Small group		Viva	Pathology
6.34			circulation	circulation		/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		Cerebral		Understand	Know	Small group		Viva	Pathology
6.35				circulation		/ interpret		discussion		Voce	<u> </u>
Hom		Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Medicine
UG-PB		How		Splenic		Understand		Small group		Voce	
6.36				circulation		/ interpret		discussion			



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **36** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		Pulmonary		Understand	Know	Small group		Viva	
6.37				circulation		/ interpret		discussion		Voce	
Hom	Information	Knows	Describe the	Explain	Cognitive	Level 2	Must know	CBL,	SAQs	SAQs,	Medicine
UG-PB	Gathering	How	mechanism of	mechanism		Understand		Lecture,		Viva	Pathology
6.38	,Integration		shock, syncope	responsible for		/ interpret		Small group		Voce	
	Of		& Hypertension	shock & syncope				discussion			
	information,	14		5: 11	<u> </u>			CDI	640	64.0	
Hom	Problem	Knows		Discuss the	Cognitive	Level 2	Must know	CBL,	SAQs	SAQs,	Medicine
UG-PB	Integration	How		mechanism of		Understand		Lecture,		Viva	Pathology
6.39	(K-2)			hypertension		/ interpret		Small group		Voce	Materia
								discussion			Medica
										0005	Organon
Hom	Information	Shows	Record blood	Measure the	Psycho-	Level 2	Must know	Demonstrati	Observ	OSCE	Medicine
UG-PB	Gathering	How	pressure at rest	blood pressure in		(Control)		on	ation		
6.40	,Integration		and in different	resting & different							
	Of		grades of	grade of exercise							
Hom	information,	Knows	Exercise and	Discuss the	Cognitive	Level 2	Must know	CBL,	Observ	OSCE	Medicine
UG-PB	Problem	How	postures	variation		(Understan		Lecture,	ation		
6.41	Integration			between		ding)		Small group			
	(K-2)			different blood				discussion			
				pressure values							
				after .							
		CI	5 1 1 .	measurement	5 1				01	0005	20 11 1
Hom	Information	Shows	Record pulse at	Measure pulse at	Psycho-	Level 2	Must know	Demonstrati	Observ	OSCE	Medicine
UG-PB	Gathering	How	rest and in	rest and in	motor	(Control)		on	ation		
6.42	,Integration Of		different	different grades of exercise							
Here	information,		grades of Exercise and	Discuss the	C:::::	Level 2	N.A. at language	CDI	Ohaami	OSCE	Medicine
Hom	Problem	Knows			Cognitive		Must know	CBL,	Observ	USCE	iviedicine
UG-PB		How	postures	variation		(Understan		Lecture,	ation		
6.43	Integration			between		d)		Small group			
	(K-2)			different arterial				discussion			
				pulse value after							
				measurement							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **37** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Information	Shows	Record ECG	Record ECG in a	Psycho-	Level 2	Desirable to	Demonstrati	Observ	OSCE	Medicine
Gathering,	How		volunteer.	motor	(Control)	know	on	ation		
Integration										
of										
information,	Knows		Identify the	Cognitive	Level 1	Nice to Know	CBL,		OSCE	
			features of a		(Recall)		Lecture,			
_			normal ECG.				Small group			
(K-2)							discussion			
Information	Shows	Demonstrate	Locate the Apex	Psycho-	Level 2	Must know	Demonstrati	Observ	OSCE	Human
Gathering,	How	the correct	beat	motor	(Control)		on	ation		Anatomy
Integration		clinical								
Of		examination of								
information,	Shows	the cardio	Auscultate for	Psycho-	Level 2	Must know	Demonstrati	Ohsary	OSCE	Medicine
Problem		vascular		,		IVIU3C KITOW			OSCL	Wiedicine
	11000	system	neare sound	1110101	(control)		011	ation		
(K-2)	Shows		Identify different	Psycho-	Level 2	Must know	Demonstrati	Ohserv	OSCE	Medicine
			-	•					3332	
					(30116101)		· · · · ·			
	Gathering, Integration of information, Problem Integration (K-2) Information Gathering, Integration Of information,	Gathering, Integration of information, Problem Integration (K-2) Information Gathering, Integration Of information, Problem Integration Of information, Problem Integration	Gathering, Integration of information, Problem Integration (K-2) Information Gathering, Integration Of information, Problem Integration (K-2) Shows How How Shows How	Gathering, Integration of information, Problem Integration Gathering, Integration (K-2) Information Gathering, Integration Of information, Problem Integration (K-2) Shows How Shows How Shows Problem Integration (K-2) Shows How Shows Problem Integration (K-2) Shows How Shows Problem Integration (K-2) Shows Identify different	Gathering, Integration of information, Problem Integration (K-2) Information Gathering, Integration Of information, Problem Integration (K-2) Shows Demonstrate the correct clinical examination of information, Problem Integration (K-2) Shows How Shows How Identify different Psycho-	Gathering, Integration of information, Problem Integration (K-2) Information Gathering, Integration Of information, Problem Integration (K-2) Shows Pows How Integration Of information, Problem Integration (K-2) Shows Shows Shows Integration (K-2) Shows Shows Shows Integration (K-2) Shows Shows Integration Of information, Problem Integration (K-2) Shows Shows Integration (K-2) Shows Integration Of Integration (K-2) Shows Integration Of Integration (K-2) Shows Integration Of Integration (K-2) Shows Integration Integration (K-2) Integration Of Integration (K-2) Shows Integration Integration (K-2) Integration Of Integration (K-2) Integration (K-2) Integration Of Integration (K-2) Integra	Gathering, Integration of information, Problem Integration Of information, Gathering, Integration Of information, Problem Integration (K-2) Shows Demonstrate the correct clinical examination of information, Problem Integration (K-2) Shows How Shows Shows Shows Integration (K-2) Shows Shows Shows Shows Shows Integration (K-2) Shows Shows Shows Shows Shows Integration (K-2) Shows Shows Shows Shows Shows Shows Integration (K-2) Shows Shows Shows Shows Integration (K-2) Shows Shows Shows Integration (K-2) Identify different Psycho- Level 2 Must know Integration (K-2) Must know Shows Integration (Control) Identify different Psycho- Level 2 Must know Shows Integration (Control)	Gathering, Integration of information, Problem Integration Of information, Problem Integration (K-2) Shows How Shows How Shows Shows Shows Integration (K-2) Shows Shows Shows Shows Shows Shows Integration (K-2) Shows Shows How Shows Shows Integration (K-2) Shows Shows Shows Shows Shows Shows Integration (K-2) Shows Sh	Gathering, Integration of information, Problem Integration Of information, Problem Integration (K-2) Shows Problem Integration (K-2) Shows Information, Problem Integration (K-2) Information Information of the cardio vascular system Information Information Information of the cardio vascular system Information In	Gathering, Integration of information, Problem Integration (K-2) Shows Problem Integration (K-2) Shows Information, Problem Integration (K-2) Shows Information Information, Problem Integration (K-2) Shows Information Information Integration (K-2) Information Information Information Information Information Integration (K-2) Shows Information Inform



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Learning Outcomes: -

At the end of the chapter of Respiratory & Environmental Physiology, the student must be able to –

Page **38** of **98**

Topic No	7
Theory	Respiratory & Environmental Physiology
Practical	
Clinical Physiology	Respiratory System- Clinical Examination, Spirometry, Stethography



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



- Describe the functional anatomy of respiratory tract.
- Describe the mechanics of normal respiration
- Describe pressure changes during ventilation
- Describe lung volume and capacities
- Describe the transport of respiratory gases
- Describe the regulation of respiration
- Demonstrate the correct clinical examination of the respiratory system in a normal volunteer.

S.No	Generic competency	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal , Vertical / Spiral
Hom UG-PB 7.1	Integration Of Information (K-1)	Respirator y & Environme ntal		Describe the functional anatomy of respiratory	Identify the different parts of upper respiratory tract	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 7.2		Physiology	Knows How	tract	Describe the importance of different parts of lower respiratory tract	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 7.3			Knows How		Identify the different parts of tracheo – bronchial tree, Respiratory membrane & pleura	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 7.4			Knows How		Explain the properties of Gases	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **39** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss non-	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		respiratory		Understand		Small group		Viva	
7.5				function of		/ interpret		discussion		Voce	
				respiratory							
				system							
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	mechanics of	mechanism of		Understand		Small group		Viva	
7.6	Information		normal	Inspiration		/ interpret		discussion		Voce	
Hom	(K-1)	Knows	respiration	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		mechanism of		Understand		Small group		Viva	
7.7				Expiration		/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe	Discuss intra-	Cognitive	Level 2	Nice to know	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Of	How	pressure	pulmonary		Understand		Small group		Viva	
7.8	Information		changes during	pressure		/ interpret		discussion		Voce	
Hom	(K-1)	Knows	ventilation	Discuss intra	Cognitive	Level 2	Nice to know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		pleural pressure		Understand		Small group		Viva	
7.9						/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe lung	Discuss static	Cognitive	Level 2	Desirable to	Lecture,	MCQs	SAQs,	Medicine
UG-PB	Of	How	volume and	lung volume &		Understand	Know	Small group		Viva	
7.10	Information.		capacities,	capacities		/ interpret		discussion		Voce	
Hom	(K-1)	Knows		Discuss dynamic	Cognitive	Level 2	Desirable to	Lecture,	MCQs	SAQs,	Medicine
UG-PB		How		lung volume		Understand	Know	Small group		Viva	
7.11				and capacities		/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe	Define surface	Cognitive	Level 1	Desirable To	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Of	How	alveolar	tension		(Remember	Know	Small group		Viva	
7.12	Information		surface tension			/ recall)		discussion		Voce	
Hom	(K-1)	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	
UG-PB		How		significance of		Understand		Small group		Viva	
7.13				lung surfactant		/ interpret		discussion		Voce	
Hom	Integration	Knows	Describe the	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB	Of	How	transport of	Oxygen		Understand		Small group		Viva	
7.14	Information		respiratory	transportation		/ interpret		discussion		Voce	
Hom	(K-1)	Knows	gases	Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		carbon dioxide	_	Understand		Small group		Viva	
7.15				transportation		/ interpret		discussion		Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **40** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB	Gathering	How	regulation of	nervous		Understand		Small group		Viva	
7.16	,Integration		respiration	regulation of		/ interpret		discussion		Voce	
	Of			respiration							
Hom	information,	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB	Problem	How		Chemical		Understand		Small group		Viva	
7.17	Integration			regulation of		/ interpret		discussion		Voce	
	(K-2)			respiration							
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	PBL,	SAQs	SAQs,	Medicine
UG-PB		How		physio clinical		Understand		Lecture,		Viva	
7.18				aspect of Apnea		/ interpret		Small group		Voce	
								discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	PBL,	MCQs	SAQs,	Medicine
UG-PB		How		physio clinical		Understand		Lecture,		Viva	FMT
7.19				aspect of		/ interpret		Small group		Voce	Materia
				Dyspnoea,				discussion			Medica
				Asphyxia,							
				Oxygen toxicity							
Hom	Information	Know	Describe the	Define Hypoxia	Cognitive	Level 1	Must know	PBL,	MCQs	LAQs,	Medicine
UG-PB	Gathering		physio clinical			(Recall)		Lecture,		Viva	
7.20	,Integration		aspect of					Small group		Voce	
	Of		hypoxia					discussion			
Hom	information,	Knows		Classify hypoxia.	Cognitive	Level 1	Must know	PBL,	MCQS,	SAQs,	Pathology
UG-PB	Problem			Define Cyanosis		Recall		Lecture,	SAQs	Viva	Medicine
7.21	Integration							Small group		Voce	
	(K-2)	14	5 11 11	5			5	discussion	640	64.0	
Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Gathering	How	principles and	principles of		Understand	Know	Small group		Viva	
7.22	,Integration Of		methods of	artificial		/interpret		discussion		Voce	
Hone	information,	V	artificial	respiration	Coordition	Level 2	NAME TO STATE OF THE STATE OF T	Lookura	CAC	CAC-	Medicine
Hom UG-PB	Problem	Knows	respiration,	Discuss the Methods of	Cognitive	Understand	Must know	Lecture,	SAQs	SAQs, Viva	iviedicine
7.23		How		artificial				Small group		-	
1.23	Integration (K-2)					/ interpret		discussion		Voce	
	(N-Z)			respiration							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **41** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB	Of	How	physiology of	pressure		Understand	know	Small group		Viva	
7.24	Information		high altitude	changes during		/ interpret		discussion		Voce	
	(K-1)		and deep sea	high altitude							
Hom		Knows	diving	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		effect during		Understand	know	Small group		Viva	
7.25				Rapid & slow		/ interpret		discussion		Voce	
				ascent on high							
				altitude							
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		pressure changes		Understand	know	Small group		Viva	
7.26				during Deep sea		/ interpret		discussion		Voce	
				diving							
Hom	Information	Shows	Perform the	Perform the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Medicine
UG-PB	Gathering	How	clinical	technique to	motor	(Control)		on	ation		
7.27	,Integration		examination of	assess normal							
	Of		the respiratory	respiratory rate,							
	information,		system in a	expansion of							
	Problem		normal	chest, in resting							
	Integration		volunteer	as well as							
	(K-2)			exercise							
				condition							
				through							
				inspection and							
				palpation							
Hom		Shows		Perform	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Medicine
UG-PB		How		percussion on	motor	(Control)		on	ation		
7.28				the chest							
Hom		Shows		Perform the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Medicine
UG-PB		How		auscultation on	motor	(Control)		on	ation		
7.29				different parts							
				of lungs.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **42** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No	8
Theory	Central Nervous System
Practical	
Clinical Physiology	Nervous System- Clinical Examination

Learning Outcomes: -

At the end of chapter of Central Nervous System, the student must be able to –

- Map the organization of nervous system.
- State the functions and properties of synapse.
- Explain the functions and properties of receptors
- Describe the functions and properties of reflex.
- Discuss the mechanism of chemical transmission in the nervous system.
- Describe somatic sensations & sensory tracts.
- Describe and discuss motor tracts & mechanism of maintenance of muscle tone.
- Describe the physiology of vestibular apparatus, Control of body movements, posture and equilibrium.
- Describe structure and functions of autonomic nervous system
- Explain the functions, lesion & sensory disturbance of Spinal cord



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



- Describe functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system
- Describe behavioural and EEG characteristic during Sleep.
- Describe the physiological basis of memory, learning and speech
- Perform the clinical examination of the nervous system in a volunteer or on a simulator.

S.No	Generic competency	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal / Vertical / Spiral
Hom UG-PB 8.1	Integration Of Information (K-1)	Nervous System	Knows	Describe the organization of nervous system	Identify the parts of central nervous system – brain & spinal cord with its function	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 8.2			Knows How		Discuss the developmental aspect of central nervous system	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 8.3			Knows		Classify nervous system	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 8.4	Integration Of Information (K-1)		Knows How	Describe the functions and properties of synapse.	Illustrate the physiological anatomy of synapse	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 8.5			Knows How		Discuss the electrical events occurring at synapses	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
HomUG -PB 8.6			Knows How		Discuss the properties of synapse.	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **44** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



HomUG -PB 8.7	Integration Of	Knows	Describe the functions and	Define receptor	Cognitive	Level 1 (Remember	Desirable to know	Lecture, Small group	SAQs MCQs	SAQs Viva	Anatomy
	Information		properties of			/ recall)		discussion		Voce	
Hom UG-PB 8.8	(K-1)	Knows	receptors	Classify the sensory receptors.	Cognitive	Level 1 (Remember / recall)	Desirable to Know	Lecture, Small group discussion	MCQs	LAQs, Viva Voce	Anatomy
Hom UG-PB 8.9		Knows How		Describe the Cutaneous receptor	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
Hom UG-PB 8.10		Knows How		explain the properties of receptor	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
Hom UG-PB 8.11	Integration Of Information	Knows How	Describe the functions and properties of	Discuss reflex arc	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 8.12	(K-1)	Knows	reflex.	Classify reflexes	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	Medicine
Hom UG-PB 8.13		Knows How		Discuss the properties of reflex	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
Hom UG-PB 8.14	Integration Of Information	Knows	Describe the mechanism of chemical	Classify neuro- transmitters	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Medicine
Hom UG-PB 8.15	(K-1)	Knows How	transmission in the nervous system.	Explain the different types of neuro-transmitter	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
Hom UG-PB 8.16	Integration Of Information	Knows	Describe somatic sensations &	Define sensory system	Cognitive	Level 1 (Remember / recall)	Must know	Lecture, Small group discussion	SAQs MCQs	SAQs, Viva Voce	
Hom UG-PB 8.17	(K-1)	Knows How	sensory tracts	Discuss different sensory tracts of spinal cord	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs MCQs	LAQ, Viva Voce	Anatomy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **45** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		sensory tracts of	Cognitive	Understand	IVIUST KITOW	Small group	MCQs	Viva	Medicine
8.18		TIOW		spinal cord		/ interpret		discussion	ivicus	Voce	
0.10				spinal coru		/ interpret		uiscussioii		voce	
Hom		Knows		Explain the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs	Anatomy
UG-PB		How		somato-sensory		Understand	Know	Small group	MCQs	Viva	Medicine
8.19				cortex		/ interpret		discussion		Voce	
Hom]	Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		somatic		Understand		Small group	MCQs	Viva	Medicine
8.20				sensation –		/ interpret		discussion		Voce	Materia
				touch, pressure,				Demonstrati			Medica
				pain,				on			Repertory
				temperature,							
				proprioception							
Hom	Information	Knows	Describe motor	Discuss motor	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	Gathering	How	tracts &	areas		Understand		Small group	MCQs	Viva	
8.21	,Integration		mechanism of			/ interpret		discussion		Voce	
Hom	Of	Knows	maintenance of	Discuss different	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	information,	How	muscle tone	motor tracts of		Understand		Small group	MCQs	Viva	Medicine
8.22	Problem			spinal cord		/ interpret		discussion		Voce	
Hom	Integration	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	(K-2)	How		motor tracts of		Understand		Small group	MCQs	Viva	Medicine
8.23				spinal cord		/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	Anatomy
UG-PB		How		clinical		Understand		Lecture,	MCQs	Viva	Medicine
8.24				significance of		/ interpret		Small group		Voce	Materia
				Motor tracts of				discussion			Medica
				spinal cord							
Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Gathering	How	physiology of	physiological		Understand		Small group	MCQs	Viva	Medicine
8.25	,Integration		vestibular	anatomy of		/ interpret		discussion		Voce	
	Of		apparatus,	vestibular							
	information,			apparatus							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Problem	Knows	Control of body	Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB	Integration	How	movements,	functions of		Understand		Small group	MCQs	Viva	Materia
8.26	(K-2)		posture and	vestibular		/ interpret		discussion		Voce	Medica
			equilibrium	apparatus							

Page **46** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		common		Understand		Small group	MCQs	Viva	Materia
8.27				vestibular		/ interpret		discussion		Voce	Medica
				dysfunctions							
Hom	Integration	Knows	Describe	Differentiate	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Anatomy
UG-PB	Of	How	structure and	between somatic		Understand		Small group	MCQs	Voce	
8.28	Information		functions of	and autonomic		/ interpret		discussion			
	(K-1)		Autonomic	nervous system							
Hom		Knows	nervous system	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How	(ANS)	divisions of		Understand		Small group		Viva	
8.29				Autonomic		/ interpret		discussion		Voce	
				nervous system							
Hom		Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB		How		responses of		Understand		Small group		Voce	
8.30				effector organ to		/ interpret		discussion			
				autonomic nerve							
				impulse							
Hom	Information	Knows	Explain the	List the functions	Cognitive	Level 1	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	Gathering		functions,	of Spinal cord		(Remember		Small group		Viva	Medicine
8.31	,Integration		lesion &			/ recall)		discussion		Voce	
Hom	Of	Knows	sensory	Illustrate the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine,
UG-PB	information,	How	disturbance of	transection of		Understand		Small group		Viva	Surgery
8.32	Problem		Spinal cord	spinal cord		/ interpret		discussion		Voce	
Hom	Integration	Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB	(K-2)	How		sensory		Understand		Small group		Viva	
8.33				disturbances of		/ interpret		discussion		Voce	
				spinal cord							
Hom	Information	Knows	Describe	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	Gathering	How	functions of	connections &		Understand		Small group		Viva	Medicine –
8.34	,Integration		cerebral cortex,	functions of		/ interpret		discussion		Voce	Psychiatry
	Of		basal ganglia,	cerebral cortex							Repertory
Hom	information,	Knows	thalamus, hypo	Discuss the	Cognitivo	Level 2	Desirable to	Locturo	SAQs	SAQs,	Anatomy
Hom UG-PB	Problem	How	- thalamus,	connections&	Cognitive	Understand	know	Lecture, Small group	SAUS	Viva	Anatomy Medicine –
8.35	Integration	HOW	cerebellum and	functions of Basal		/ interpret	KIIOW	discussion		Voce	Psychiatry
0.33	(K-2)		limbic system	Ganglia		, interpret		uiscussion		voce	rsycillatry



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **47** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows	and their	Explain the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How	abnormalities	connections &		Understand	Know	Small group		Viva	Medicine –
8.36				functions of		/ interpret		discussion		Voce	Psychiatry
				Thalamus							Repertory
Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How		connections&		Understand		Small group		Viva	Medicine –
8.37				functions of		/ interpret		discussion		Voce	Psychiatry
				Hypothalamus							Materia
											Medica
											Repertory
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy,
UG-PB		How		connections &		Understand		Small group		Viva	Psychology,
8.38				functions of		/ interpret		discussion		Voce	Medicine –
				Limbic system							Psychiatry
											Materia
											Medica
Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How		connections&		Understand		Small group		Viva	Medicine –
8.39				functions of		/ interpret		discussion		Voce	Psychiatry
				Cerebellum							Materia
											Medica
Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Pathology
UG-PB		How		cerebellar lesions		Understand		Small group		Viva	Medicine –
8.40						/ interpret		discussion		Voce	Psychiatry
											Materia
											Medica
Hom	Integration	Knows	Describe	Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB	Of	How	behavioral and	importance of		Understand		Small group		Voce	
8.41	Information		EEG	EEG		/ interpret		discussion			
Hom	(K-1)	Knows	characteristic	Explain the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB		How	during	Physiological		Understand		Small group		Voce	
8.42			Sleep and	Basis of EEG		/ interpret		discussion			
Hom		Knows	mechanism	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How	responsible for	factors affecting		Understand	Know	Small group		Viva	
8.43			its production	sleep		/ interpret		discussion		Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page 48 of 98



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Describe the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		Physiological		Understand	Know	Small group		Viva	
8.44				changes during		/ interpret		discussion		Voce	
				sleep							
Hom]	Knows		Classify the types	Cognitive	Level 1	Nice to know	Lecture,	SAQs	Viva	Medicine
UG-PB				of sleep		(Remember		Small group		Voce	
8.45						/ recall)		discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Anatomy
UG-PB		How		factors		Understand		Small group		Voce	Medicine
8.46				controlling sleep		/ interpret		discussion			
				cycle							
Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Gathering	How	physiological	mechanism and		Understand	Know	Small group		Viva	Medicine
8.47	,Integration		basis of	development of		/ interpret		discussion		Voce	
	Of		memory,	speech							
Hom	information,	Knows	learning	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Problem	How	And speech	physiological		Understand		Small group		Viva	Medicine
8.48	Integration			basis of learning		/ interpret		discussion		Voce	Materia
	(K-2)										Medica
											Repertory
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		physiological		Understand		Small group		Viva	
8.49				basis of memory.		/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		applied		Understand		Small group		Viva	Materia
8.50				physiology of		/ interpret		discussion		Voce	Medica
				memory							Repertory
Hom	Information	Shows	Perform the	Perform	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	Gathering	How	clinical	examination of	motor	(Control)		on	ation	OSCE	Medicine
8.51	,Integration		examination of	cranial nerves							
Hom	Of	Shows	the nervous	Perform	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	information,	How	System : Higher	examination for	motor	(Control)		on	ation	OSCE	Medicine
8.52	Problem		functions,	speech							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Integration	Shows	sensory	Conduct the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy	
UG-PB	(K-2)	How	system, motor	assessment of	motor	(Control)		on	ation	OSCE	Medicine	
8.53			system,	muscle tone								

Page **49** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Shows	reflexes, cranial	Conduct the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	How	nerves in a	assessment of	motor	(Control)		on	ation	OSCE	Medicine
8.54		normal	muscle power							
Hom	Shows	volunteer or	Perform the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	How	simulated	clinical	motor	(Control)		on	ation	OSCE	Medicine
8.55		Environment	examination for							
			reflexes							
Hom	Shows		Perform	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	How		Cutaneous	motor	(Control)		on	ation	OSCE	Medicine
8.56			sensory							
			examination							
Hom	Shows		Perform the	Psycho-	Level 2	Must know	Demonstrati	Observ	Checklist	Anatomy
UG-PB	How		clinical	motor	(Control)		on	ation	OSCE	Medicine
8.57			examination of							
			gait and posture							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **50** of **98**

Topic No	9
Theory	Endocrine System
Practical	
Clinical Physiology	Reproductive System – Diagnosis of pregnancy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Learning Outcomes: -

At the end of chapter of Endocrine System& Diagnosis of pregnancy, the student must be able –

- Explain the mechanism of action of steroid, protein and amine hormones.
- Describe the regulation of secretion of hormones by hypothalamus.
- Discuss the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of-Pituitary gland; Thyroid gland; Para Thyroid glands; Adrenal glands; and Pancreatic Gland.
- Explain the physiology of Thymus &Pineal Glands, and the local hormones.

S.No	Generic competenc y	Subject area	Miller's Level	Specific competency	Specific Learning Objectives / outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal / Vertical / Spiral
Hom	Integration	Endocrine	Knows	Describe the	Define	Cognitive	Level 1	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB	Of	system		mechanism of	hormones		(Remembe	Know	Small group	MCQs	Viva	
9.1	Information (K-1)			action of steroid,			r/ recall)		discussion		Voce	
Hom	(1 2)		Knows	protein	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Psychology
UG-PB			How	And amine	characteristic of		Understan	know	Small group	MCQs	Viva	
9.2				hormones	hormones		d /		discussion		Voce	
				normones			interpret					
Hom]		Knows		Classify the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistr
UG-PB			How		hormones as		Understan	know	Small group	MCQs	Viva	
9.3					per their		d /		discussion		Voce	
					chemistry		interpret					
Hom	Integration		Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of		How	regulation of	regulation of		Understan		Small group	MCQs	Viva	Medicine
9.4	Information			secretion of	hormone from		d /		discussion		Voce	
	(K-1)			hormones by	the		interpret					
				hypothalamus	hypothalamus							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Knows	Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Medicine
UG-PB	How	homoeostatic		Understan		Small group		Viva	
9.5		mechanism of		d /		discussion		Voce	
		secretion of		interpret					
		hormone							
		through							
		Hypothalamus							

Page **51** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	Discuss the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	synthesis,	physiological		Understan	Know	Small group	MCQs	Viva	Materia
9.6	Information		secretion,	anatomy of		d/		discussion		Voce	Medica
	(K-1)		Transport,	pituitary gland		interpret					
Hom		Knows	Physiological action,	Explain the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How	regulation &	secretion of		Understan	Know	Small group	MCQs	Viva	Materia
9.7			effect of	anterior		d /		discussion		Voce	Medica
			altered	pituitary		interpret					
			secretion of	hormone							
Hom		Knows	Pituitary gland	Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How	, ,	secretion of		Understan		Small group	MCQs	Viva	
9.8				growth		d /		discussion		Voce	
				hormone		interpret					
Hom		Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		functions of		Understan		Small group	MCQs	Viva	
9.9				growth		d /		discussion		Voce	
				hormone		interpret					
Hom		Knows		List the factors	Cognitive	Level	Nice to know	Lecture,	SAQs	Viva	
UG-PB				affecting growth		1Recall		Small group	MCQs	Voce	
9.10				hormone				discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How		effects of		Understan		Small group	MCQs	Viva	Medicine
9.11				altered		d/		discussion		Voce	
				secretion of		interpret					
				growth							
				hormone							
Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		actions and		Understan		Small group	MCQs	Viva	Obstetrics 8
9.12				control of		d /		discussion		Voce	Gynaecolog
				secretion of		interpret					
				prolactin							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

			1						
Hom	Knows	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	How	secretion of		Understan	Know	Small group	MCQs	Viva	
9.13		posterior		d /		discussion		Voce	
		Pituitary		interpret					
		hormones							

Page **52** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		functions of		Understan		Small group	MCQs	Viva	
9.14				ADH		d /		discussion		Voce	
						interpret					
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		functions of		Understan		Small group	MCQs	Viva	Obstetrics &
9.15				Oxytocin		d/		discussion		Voce	Gynaecolog
						interpret					
Hom		Knows		Describe	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		pituitary		Understan		Small group	MCQs	Viva	Medicine
9.16				insufficiency		d /		discussion		Voce	
						interpret					
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	synthesis,	physiological		Understan	know	Small group		Viva	Materia
9.17	Information		secretion,	anatomy of		d/		discussion		Voce	Medica
	(K-1)		Transport,	Thyroid gland		interpret					Repertory
Hom		Knows	Physiological	Describe the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	
UG-PB		How	action,	formation &		Understan		Lecture,		Viva	
9.18			regulation &	secretion of		d/		Small group		Voce	
			effect of	thyroid		interpret		discussion			
			altered	hormone							
Hom		Knows	secretion of	Explain the	Cognitive	Level 2	Desirable to	CBL,	SAQs	LAQs,	
UG-PB		How	Thyroid gland	transport &		Understan	Know	Lecture,		Viva	
9.19				metabolism of		d/		Small group		Voce	
				thyroid		interpret		discussion			
	_			hormone							
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	
UG-PB		How		regulation and		Understan		Lecture,		Viva	
9.20				action of		d /		Small group		Voce	
				thyroid		interpret		discussion			
	1			hormone							
Hom		Knows		Explain the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	Medicine
UG-PB		How		effect of altered		Understan		Lecture,		Viva	
9.21				secretion of		d /		Small group		Voce	
				Thyroid		interpret		discussion			
				hormone							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **53** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	Explain the	Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Biochemistr
UG-PB	Of	How	synthesis,	calcium &		Understan		Small group		Voce	Medicine
9.22	Information		secretion,	phosphate		d /		discussion			Materia
	(K-1)		Transport,	metabolism		interpret					Medica
Hom		Knows	Physiological	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How	action,	action of		Understan	Know	Small group	MCQs	Viva	
9.23			regulation &	parathormone		d /		discussion		Voce	
			effect of			interpret					
Hom		Knows	altered	Describe the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Biochemistr
UG-PB		How	secretion of	action of		Understan	Know	Small group	MCQs	Viva	
9.24			Para Thyroid	Calcitonin		d /		discussion		Voce	
			gland.			interpret					
Hom		Knows		Discuss the role	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Biochemistr
UG-PB		How		of Calcitonin in		Understan		Small group	MCQs	Viva	Medicine
9.25				the		d /		discussion		Voce	Materia
				maintenance of		interpret					Medica
				calcium							
				homoeostasis in							
				body							
Hom		Calcitoni		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Medicine
UG-PB				effect of altered		Understan		Small group	MCQs	Viva	
9.26				secretion of		d /		discussion		Voce	
				para thyroid		interpret					
				hormone							
Hom	Integration	Calcitoni	Describe the	Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	Anatomy
UG-PB	Of		synthesis,	physiological		Understan		Small group		Voce	
9.27	Information		secretion,	anatomy of		d /		discussion			
	(K-1)		Transport,	Adrenal Cortex		interpret					
			Physiological	gland							
Hom		Calcitoni	action,	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB			regulation &	formation,		Understan		Small group		Viva	
9.28			effect of	secretion, and		d /		discussion		Voce	
			altered	functions of		interpret					
			secretion of	Glucocorticoid							
			Adrenal gland	hormone							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **54** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		formation,		Understan		Small group		Viva	
9.29				secretion, and		d /		discussion		Voce	
				functions of		interpret					
				Mineralocortico							
				id hormone							
Hom		Knows		Describe the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How		formation,		Understan	know	Small group		Viva	
9.30				secretion, and		d /		discussion		Voce	
				functions of Sex		interpret					
				hormones							
Hom		Knows		Explain the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		effects of		Understan	know	Small group		Viva	
9.31				altered		d /		discussion		Voce	
				secretion of		interpret					
				Adrenal cortex							
				hormone							
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		physiological		Understan	know	Small group		Viva	
9.32				anatomy of		d /		discussion		Voce	
				Adrenal		interpret					
				Medullary gland							
Hom	Integration	Knows	Describe the	Explain the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	How	synthesis,	physiological		Understan	Know	Small group		Viva	Materia
9.33	Information		secretion,	anatomy of		d /		discussion		Voce	Medica
	(K-1)		Transport,	Pancreatic gland		interpret					
Hom		Knows	Physiological	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	LAQs,	
UG-PB		How	action,	action and		Understan	Know	Small group		Viva	
9.34			regulation &	regulation of		d /		discussion		Voce	
			effect of	Glucagon		interpret					
Hom		Knows	altered	Discuss the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	Medicine
UG-PB		How	secretion of	action and		Understan		Lecture,		Viva	Materia
9.35			Pancreatic	regulation of		d /		Small group		Voce	Medica
			Gland	Insulin		interpret		discussion			



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **55** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Describe the	Cognitive	Level 2	Must know	CBL,	SAQs	LAQs,	Pathology
UG-PB		How		effects of		Understan		Lecture,	MCQs	Viva	Medicine
9.36				altered		d /		Small group		Voce	
				secretion of		interpret		discussion			
				Pancreatic							
				Hormone							
Hom	Integration	Knows	Describe the	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	
UG-PB	Of	How	physiology of	functions of		Understan		Small group	MCQs	Viva	
9.37	Information		Thymus &	hormone of		d /		discussion		Voce	
	(K-1)		Pineal Gland	thymus gland		interpret					
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	
UG-PB		How		functions of		Understan		Small group	MCQs	Viva	
9.38				hormone of		d /		discussion		Voce	
				pineal gland		interpret					
Hom		Knows	Describe the	State the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	Viva	
UG-PB		How	Physiology of	functions of		Understan		Small group	MCQs	Voce	
9.39			Local	Local hormones		d /		discussion			
			hormones			interpret					
Hom	Information	Shows	Describe the	Demonstrate	Psycho	Level 2	Must know	Demonstrati	Observ	Checklist	Obs&Gynec
UG-PB	Gathering	How	diagnosis of	the diagnosis of	Motor	(Control)		on	ation		
9.40	,Integration		pregnancy	pregnancy							
	Of			through Urine							
	information			pregnancy Strip							
	, Problem										
	Integration										
	(K-2)										



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **56** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

SEMESTER - 3

Learning Outcomes: -

At the end of the chapter on Reproductive System, the student must be able to –

- Describe the onset, progression, and stages puberty.
- Describe the structure and functions of male reproductive system.
- Describe the physiological effects of male sex hormone.
- Describe female reproductive system & functions of ovary and its Control.
- Describe menstrual cycle with hormonal, uterine and ovarian changes.
- Describe the physiological effects of female sex hormones.
- Discuss the contraceptive methods for male and female.
- Discuss the physiology of pregnancy, parturition & lactation.

S.No	Generic	Subject	Miller's	Specific	Specific Learning	Bloom's	Guilbert's	Must know	TL method /	Format	Summa	Integration -
	competency	area	Level	competency	Objectives /	domain	level	/ desirable	media	ive	tive	Horizontal /
					outcomes			to know /		Assess	Assess	Vertical /
								nice to		ment	ment	Spiral
								know				



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Hom	Integration	Reproduct	Knows	Describe the	Define puberty	Cognitive	Level 1	Must know	Lecture,	SAQs	SAQs,	Psychology
	UG-PB	Of	ive System		onset,			(Remember		Small group		Viva	Obstetrics 8
	10.1	Information			progression,			/ recall)		discussion		Voce	Gynaecolog
		(K-1)			and stages								
L													

	5 53 (00	
Topic No	10 Page 57 of 98	
Theomi	Downed vetive Custom	
Theory	Reproductive System	
Practical		ı
Clinical Physiology		ì



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	1	Т						T		1	
Hom		Knows	puberty.	Discuss the role	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How	List causes and	of LH & FSH in		Understand		Small group		Viva	Psychology
10.2			expressions of	development of		/ interpret		discussion		Voce	Obstetrics 8
			early and	puberty							Gynaecolog
Hom		Knows	delayed	Explain puberty	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How	puberty	for its onset, and		Understand		Small group		Viva	Psychology
10.3				stages. Describe		/ interpret		discussion		Voce	Obstetrics 8
				the causes for							Gynaecolog
				delayed							
				&precocious							
				puberty.							
Hom	Integration	Knows	Describe the	Describe the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Anatomy
UG-PB	Of	How	structure and	structure of male		Understand	know	Small group		Voce	
10.4	Information		functions of	reproductive		/ interpret		discussion			
	(K-1)		male	system							
11		V.a.aa	reproductive	Franksin Ales	Ca and it is sa	Lavial 2	Desirable to	Lastina	CAO-	CAO-	NA - di ai - a
Hom		Knows	system.	Explain the	Cognitive	Level 2		Lecture,	SAQs	SAQs,	Medicine
UG-PB		How		function of male		Understand	Know	Small group		Viva	
10.5				reproductive		/ interpret		discussion		Voce	
		.,	- " "	system.	0 111						
Hom	Integration	Knows	Describe the	Explain the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Psychology
UG-PB	Of	How	physiological	functions of testis		Understand		Small group	MCQs	Viva	Medicine
10.6	Information		effects of male	as an endocrine		/ interpret		discussion		Voce	
	(K-1)		sex hormone	gland.							
Hom		Knows		Discuss the role	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		of testosterone		Understand		Small group		Viva	Obstetrics 8
10.7						/ interpret		discussion		Voce	Gynaecolog
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB	Of	How	functions of	process of		Understand		Small group		Viva	Medicine
10.8	Information		testis and	spermatogenesis		/ interpret		discussion		Voce	
	(K-1)		control of								
Hom		Knows	Spermatogenes	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB		How	is & factors	factors affecting	Cogimuve	Understand	Know	Small group	JAUS	Viva	
10.9		ПОW	modifying it	spermatogenesis		/ interpret	KIIOW	discussion		Voce	
10.9				spermatogenesis		, interpret		uiscussiuii		voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **58** of **98**



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

y NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Thereta all		Categor	ry - I Deem	ed to be University	under UGC Regulation	ons 2018						T
nd Post: Pip I Id: princip	paria, Taluka: Wa palshmch@suma	ighodia, District indeepvidyapee	t: Vadodara thdu.edu.i	a, Gujarat State, IND n, info@sumandeep	IA. Pin Code: 391760. vidyapeethdu.edu.in	Phone: +91 2 Website: ww	668 245262 / 64 w.sumandeepvi	/ 66, Ext No:3101 dyapeethdu.edu.ir	Lectu re,	SAQs	SAQs, Viva	Anatomy Obstetrics 8
Hom	Integration		Knows	Describe	Describe	Cognitive	Level 2	Must know	Small group		Voce	Gynaecolog
UG-PB	Of		How	female	structure the		Understand		discussion			
10.10	Information			reproductive	female		/ interpret					
	(K-1)			system &	reproductive		,			SAQs	SAQs,	Obstetrics 8
	` ′			functions of	tract				Lecture,		Viva	Gynaecolog
Hom			Knows	ovary and its	Discuss the	Cognitive	Level 2	Desirable to	Small group		Voce	
UG-PB			How	Control.	functions of	J	Understand	Know	discussion			
10.11					female		/ interpret					
]				reproductive		•			SAQs	LAQs,	Obstetrics 8
					tract				Lecture,	MCQs	Viva	Gynaecolog
Hom			Knows		Discuss the role	Cognitive	Level 2	Must know	Small group		Voce	
UG-PB			How		of ovary as an		Understand		discussion			
10.12					endocrine gland.		/ interpret					
					List the							
					hormones							
					secreted by					SAQs	LAQs,	Obstetrics 8
					ovary.				Lecture,	MCQs	Viva	Gynaecolog
Hom	Integration		Knows	Describe	Discuss the	Cognitive	Level 2	Must know	Small group		Voce	
UG-PB	Of		How	menstrual cycle	ovarian changes	_	Understand		discussion			
10.13	Information			with hormonal,	during menstrual		/ interpret			SAQs	LAQs,	Obstetrics 8
	(K-1)			uterine and	cycle				Lecture,	MCQs	Viva	Gynaecolog
Hom			Knows	ovarian	Discuss the	Cognitive	Level 2	Must know	Small group		Voce	
UG-PB			How	changes	Uterine changes		Understand		discussion			
10.14					during menstrual		/ interpret			SAQs	LAQs,	Obstetrics 8
					cycle				Lecture,		Viva	Gynaecolog
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	Small group		Voce	
UG-PB		<u> </u>	How		Vaginal changes		Understand		discussion			
10.15					during menstrual		/ interpret			SAQs	SAQs,	Obstetrics
					cycle				Lecture,		Viva	Gynaecolog
Hom	Integration		Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Small group		Voce	Materia
UG-PB	Of	<u> </u>	How	physiological	Gonadotrophin		Understand	know	discussion			Medica
10.16	Information			effects of	changes during		/ interpret			MCQs	SAQs,	Obstetrics 8
	(K-1)			female sex	menstrual cycle				CBL,		Viva	Gynaecolog
Hom			Knows	hormones	Discuss the	Cognitive	Level 2	Must know	Lecture,		Voce	
UG-PB			How		changes during		Understand		Small group			
10 17					menonause		/ interpret		discussion			

10.17 menopause / interpret discussion



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

The state of the s		Categ	ory - I Deen	ned to be University	under UGC Regulati	ons 2018					1	
nd Post: Pi	paria, Taluka: Wa	ghodia, Distri	ct: Vadodar	a, Gujarat State, IND	IA. Pin Code: 391760.	Phone: +91 2	668 245262 / 64	66, Ext No:3101	☐ Lectu	MCQs	Viva	Obstetrics 8
il ld: princi	palshmch@suma	indeepvidyape	eethdu.edu.i	n, info@sumandeep	vidyapeethdu.edu.in	Website: ww	w.sumandeepvi	dyapeethdu.edu.ir			Voce	Gynaecolog
Hom			Knows	Discuss the	Describe the	Cognitive	Level 2	Nice to	Small group			Community
UG-PB			How	contraceptive	contraceptive		Understand	know	discussion			Medicine
10.18				methods for	methods for male		/ interpret			MCQs	Viva	Obstetrics 8
				male and					Lecture,		Voce	Gynaecolog
Hom			Knows	female.	Describe the	Cognitive	Level 2	Nice to	Small group			Community
UG-PB			How		contraceptive		Understand	know	discussion			Medicine
10.19					methods for		/ interpret			SAQs	LAQs,	Obstetrics 8
					female				Lecture,		Viva	Gynaecolog
Hom	Integration		Knows	Discuss the	Discuss the	Cognitive	Level 2	Must know	Small group		Voce	
UG-PB	Of		How	physiology of	fertilization &	_	Understand		discussion			
10.20	Information			pregnancy,	implantation of		/ interpret			SAQs	SAQs,	Obstetrics
	(K-1)			parturition &	ovum				Lecture,		Viva	Gynaecolog
Hom			Knows	lactation.	Explain the role	Cognitive	Level 2	Desirable to	Small group		Voce	
UG-PB			How		of placenta as an	J	Understand	Know	discussion			
10.21					endocrine organ.		/ interpret					
					List the placental					SAQs	LAQs,	Obstetrics
					hormones				Lecture,		Viva	Gynaecolog
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	Small group		Voce	Materia
UG-PB			How		process of		Understand		discussion			Medica
10.22					parturition		/ interpret			SAQs	SAQs,	Obstetrics 8
					,		,,		Lecture,		Viva	Gynaecolog
Hom			Knows		Describe the role	Cognitive	Level 2	Desirable to	Small group		Voce	'
UG-PB			How		of prolactin		Understand		discussion	SAQs	SAQs,	Obstetrics
10.23					Hormone		/ interpret		Lecture,		Viva	Gynaecolog
Hom			Knows		Explain the	Cognitive	Level 2	Desirable to	Small group		Voce	Community
UG-PB			How		process of	555	Understand		discussion			Medicine
10.24					lactation		/ interpret					Materia
10.27							, interpret					Medica

Topic No	11
Theory	Special Senses
Practical	
Clinical Physiology	Special Senses – Clinical Examination



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Learning Outcomes: -

At the end of the chapter on Special senses, the student must be able to –

- Discuss perception of smell and taste sensation
- Discuss patho-physiology of altered smell and taste sensation
- Discuss functional anatomy of ear and auditory pathways & physiology of hearing
- Discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, refractive errors, colour blindness, physiology of pupil and light reflex
- Discuss the physiological basis of lesion in visual pathway
- Demonstrate the testing of visual acuity, colour and field of vision; hearing; smell; and taste sensation in volunteer or simulated environment

S.No	Generic	Subject	Miller's	Specific	Specific Learning	Bloom's	Guilbert's	Must know /	TL method	Formati	Summat	Integration -
	competency	area	Level	Competency	Objectives /	domain	level	desirable to	/ media	ve	ive	Horizontal /
					outcomes			know / nice		Assessm	Assessm	Vertical /
								to know		ent	ent	Spiral
Hom	Integration	Special	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	Senses	How	perception of	sensation of		Understand	Know	Small group		Viva	Surgery - ENT
11.1	Information			smell sensation	olfaction		/ interpret		discussion		Voce	
	(K-1)											
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQ,	Anatomy
UG-PB			How		olfactory		Understand		Small group		Viva	
11.2					receptor,		/ interpret		discussion		Voce	
					olfactory							
					pathway							
Hom			Knows		Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	
UG-PB			How		physiology of		Understand	know	Small group		Viva	
11.3					olfaction		/ interpret		discussion		Voce	
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	CBL,	MCQs	SAQs,	Medicine
UG-PB			How		altered sensation		Understand		Lecture,		Viva	
11.4					of smell		/ interpret		Small group		Voce	
									discussion			



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Integration	Knows	Describe	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	SAQs	SAQs,	Anatomy	l
UG-PB	Of	How	perception of	sensation of		Understand	Know	Small group		Viva	Surgery – E IT	l
11.5			taste sensation	Taste		/ interpret		discussion		Voce		l

Page **61** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	Information (K-1)										Materia Medica Repertory
Hom UG-PB 11.6		Knows How		Discuss the taste receptor.	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQ, Viva Voce	Anatomy
		Shows How		Draw the taste pathway	Psycho motor	Level 2. Control	Must Know	Demonstrat ion	Observa tion	DOPS	Anatomy
Hom UG-PB 11.7		Knows How		Discuss the physiology of Taste	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 11.8		Knows How		Discuss the altered sensation of Taste	Cognitive	Level 2 Understand / interpret	Desirable to know	CBL, Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Medicine Materia Medica
Hom UG-PB 11.9	Integration Of Information (K-1)	Knows How	Describe the functional anatomy of ear & auditory	Describe the physiological anatomy of ear	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy Surgery – E NT Materia Medica
Hom UG-PB 11.10	,	Shows How	pathways	Map the Auditory Pathway	Psycho motor	Level 2. Control	Must Know	Demonstrat ion	Observa tion	Checklist	Anatomy ENT
Hom UG-PB 11.11		Knows How		Describe the mechanism of hearing	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Surgery - EN T
Hom UG-PB 11.12		Knows How		Discuss the altered sensation of Hearing	Cognitive	Level 2 Understand / interpret	Must know	CBL, Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Medicine Surgery – E NT Materia Medica
Hom UG-PB 11.13	Integration Of Information (K-1)	Knows How	Describe the functional anatomy of eye	Explain the structure & function of eye.	Cognitive	Level 2 Understand / interpret	Must Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy Surgery - Ophthalmol gy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **62** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	Describe the	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB	Of	How	physiology of	visual pathway		Understand		Small group		Viva	
11.14	Information		image			/ interpret		discussion		Voce	
	(K-1)		formation								
Hom	-	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Surgery –
UG-PB		How		principles of		Understand		Small group		Viva	Ophthalmol
11.15				optics, visual acuity, Visual reflex		/ interpret		discussion		Voce	gy
Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	MCQs	SAQs,	Surgery –
UG-PB	Gathering	How	physiology of	photochemistry		Understand	know	Small group		Viva	Ophthalmol
11.16	,Integration		vision including	of vision		/ interpret		discussion		Voce	gy
	Of		colour vision								
Hom	information, Problem	Knows		Discuss the	Cognitive	Level 2	Nice to know	Lecture,	SAQs	SAQs,	Surgery –
UG-PB	Integration	How		photopic &		Understand		Small group		Viva	Ophthalmol
11.17	(K-2)			scotopic vision		/ interpret		discussion		Voce	gy
Hom	(11 2)	Knows		Discuss the visual	Cognitive	Level 2	Desirable to	PBL,	SAQs	SAQs,	Surgery –
UG-PB		How		adaptation, visual		Understand	know	Lecture,		Viva	Ophthalmol
11.1.8				accommodation		/ interpret		Small group		Voce	gy
				& night blindness				discussion			Materia
											Medica
Hom	Information	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable to	Lecture,	MCQs	LAQs,	Surgery –
UG-PB	Gathering	How	refractive	different types of		Understand	know	Small group		Viva	Ophthalmol
11.19	,Integration		errors and	refractive errors		/ interpret		discussion		Voce	gy
	Of		colour								Materia
	information,		blindness								Medica
	Problem										Repertory
Hom	Integration	Knows		Discuss the	Cognitive	Level 2	Desirable to	CBL,	MCQs	SAQs,	Surgery –
UG-PB	(K-2)	How		colour blindness		Understand	know	Lecture,		Viva	Ophthalmol
11.20						/ interpret		Small group		Voce	gy
								discussion			Materia
											Medica



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	List the causes of	Cognitive	Level	Nice to know	CBL,	SAQs	Viva	Surgery –
UG-PB			Nystagmus		1Recall		Lecture,		Voce	Ophthalmol
11.21							Small group			gy
							discussion			

Page **63** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	I		<u> </u>			T	T	T	1		
											Materia Medica
Hom UG-PB 11.22	Information Gathering Integration Of information,	Sho		Perform the testing of visual acuity, colour and field of vision	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrat ion	Observa tion	Checklist	Surgery – Ophthalmol gy
Hom UG-PB 11.23	Problem Integration (K-2)	Kno	volunteer	Interpret the testing of visual acuity, colour and field of vision	Cognitive	Level 2 Understand / interpret	Nice to know	CBL, Lecture, Small group discussion	SAQs	Viva Voce	Surgery – Ophthalmol gy Materia Medica
Hom UG-PB 11.24	Information Gathering ,Integration	Sho		Perform the testing of hearing in a volunteer	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrat ion	Observa tion	Checklist	Surgery – E N
Hom UG-PB 11.25	Of information, Problem Integration (K-2)	Kno		Interpret the testing of hearing in a volunteer	Cognitive	Level 2 Understand / interpret	Nice to know	CBL, Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Surgery – Ophthalmol gy Materia Medica
Hom UG-PB 11.26	Information Gathering ,Integration Of	Sho		Perform testing for smell in a volunteer	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrat ion	Observa tion	Checklist	Surgery – E N
Hom UG-PB 11.27	information, Problem Integration (K-2)	Kno		Interpret testing for smell in a volunteer	Cognitive	Level 2 Understand / interpret	Nice to know	CBL, Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Surgery – Ophthalmol gy Materia Medica
Hom UG-PB 11.27	Information Gathering, Integration Of	SHO		Perform testing for taste sensation in volunteer	Psycho Motor	Level 2 (Control)	Must know	Demonstrat ion	Observa tion	Checklist	Anatomy Surgery – E N



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	information,	Knows	Interpret testing	Cognitive	Level 2	Nice to know	CBL,	SAQs	SAQs,	Anatomy
UG-PB	Problem	How	for taste		Understand		Lecture,		Viva	Surgery – E NT
11.29	Integration		sensation in		/ interpret		Small group		Voce	
	(K-2)		volunteer				discussion			

Page **64** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No	12
Theory	Digestive System & Nutrition
Practical	Liver Function Test
Clinical Physiology	Gastrointestinal system clinical examination

Learning Outcomes: -

At the end of the chapter Digestive system & Nutrition, the student must be able to –

- Describe the structure, Function & Innervation of digestive system.
- Describe the composition, mechanism of secretion, function & regulation of saliva.
- Describe the movement of oesophagus.
- Describe the composition, mechanism of secretion, function & regulation of gastric juice.
- Describe the composition, mechanism of secretion, function & regulation of pancreatic juice.
- Describe the structure & function of liver & Gall bladder.
- Describe the composition, mechanism of secretion, function & regulation of Bile.
- Describe the composition, mechanism of secretion, function & regulation of Small Intestine.
- Describe the movement of gastrointestinal tract, it's regulation & function.
- Describe the movement of large intestine & defecation as a process.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



- Describe the physiology of digestion and absorption of nutrients.
- Observe the procedure for Liver Function Test.
- Perform examination for gastrointestinal system on a volunteer.

S.No	Generic competency	Subject area	Miller's Level	Specific competency Describe the	Specific Learning Objectives / outcomes Discuss the	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Format ive Assess ment	Summat ive Assessm ent	Integration - Horizontal / Vertical / Spiral
Hom UG-PB	Information	Digestiv e System		structure,	importance of	Cognitive	Understand	Widst Kilow	Lecture, Small group	SAUS	Viva	Anatomy
12.1	(K-1)	&		Function &	digestive system		/ interpret		discussion		Voce	
Hom UG-PB 12.2		Nutrition	Knows	Innervation of digestive system	Recall the structure of digestive system	Cognitive	Level 1 Recall	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 12.3			Knows		Recognize the structure of small intestine	Cognitive	Level 1 Recall	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 12.4			Knows		Identify the structure of large intestine	Cognitive	Level 1 Recall	Must know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy
Hom UG-PB 12.5	Integration Of Information (K-1)		Knows	Describe the composition, mechanism of secretion, function &	Classify salivary glands. Mention the innervation of salivary glands.	Cognitive	Level 1 Recall	Desirable to know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Anatomy Materia Medica
Hom UG-PB 12.6			Knows How	regulation of saliva	Discuss composition of saliva	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	LAQs, Viva Voce	Biochemistr y
Hom UG-PB 12.7			Knows How		Discuss functions of saliva	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Medicine Materia Medica



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

The state of the s										
Hom		Knows	Describe	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How	mechanism of		Understand		Small group		Viva	
12.8			salivary secretion		/ interpret		discussion		Voce	

Page **66** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		control of		Understand		Small group		Viva	
12.9				salivary secretion		/ interpret		discussion		Voce	
Hom		Knows		Explain the	Cognitive	Level 2	Desirable	PBL,	SAQs	SAQs,	Medicine
UG-PB		How		clinical relevance		Understand	to Know	Lecture,		Viva	Materia
12.10				of salivary gland		/ interpret		Small group		Voce	Medica
				& salivary				discussion			
				secretion							
Hom	Integration Of	Knows	Describe the	Describe the	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,	
UG-PB	Information	How	movement of	process of		Understand	to Know	Small group		Viva	
12.11	(K-1)		oesophagus	mastication.		/ interpret		discussion		Voce	
Hom		Knows		Explain the	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	Anatomy
UG-PB		How		stages of		Understand		Small group		Viva	Medicine
12.12				swallowing		/ interpret		discussion		Voce	
Hom		Knows		Discuss the role	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	
UG-PB		How		of upper & lower		Understand	know	Small group		Voce	
12.13				oesophageal		/ interpret		discussion			
				sphincter							
Hom		Knows		List the common	Cognitive	Level 1	Nice to	CBL,	SAQs	Viva	Medicine
UG-PB				oesophageal		Recall	Know	Lecture,		Voce	Surgery
12.14				motility disorders				Small group			
								discussion			
Hom	Integration Of	Knows	Describe the	Recall the macro	Cognitive	Level 1	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Information		composition,	and micro		Recall		Small group		Viva	
12.15	(K-1)		mechanism of	structure of				discussion		Voce	
			secretion,	stomach							
Hom		Knows	function &	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		How	regulation of	functions of		Understand		Small group		Viva	
12.16			Gastric Juice	stomach		/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	Biochemistr
UG-PB		How		composition &		Understand		Small group		Viva	У
12.17				functions of		/ interpret		discussion		Voce	
				gastric juice							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **67** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		mechanism &		Understand		Small group		Viva	
12.18				regulation of		/interpret		discussion		Voce	
				gastric juice							
				secretion							
Hom	1	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		process of		Understand		Small group		Viva	
12.19				digestion in		/ interpret		discussion		Voce	
				stomach							
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		movements of		Understand	to know	Small group		Viva	
12.20				stomach		/ interpret		discussion		Voce	
Hom	1	Knows		Mention the	Cognitive	Level 1	Nice to	CBL,	SAQs	Viva	Medicine
UG-PB				three phases of		Recall	know	Lecture,		Voce	Materia
12.21				vomiting				Small group			Medica
								discussion			Repertory
Hom	Integration Of	Knows	Describe the	Recall the macro	Cognitive	Level 1	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Information		composition,	and micro		Recall		Small group		Viva	
12.22	(K-1)		mechanism of	structure of				discussion		Voce	
			secretion,	Pancreas							
Hom	1	Knows	function &	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Biochemistr
UG-PB		How	regulation of	composition &		Understand		Small group		Viva	у
12.23			Pancreatic	functions of		/interpret		discussion		Voce	
			Juice	pancreatic juice							
Hom	1	Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB		How		mechanism &		Understand		Small group		Viva	
12.24				regulation of		/interpret		discussion		Voce	
				pancreatic juice							
				secretion							
Hom]	Knows		Describe exocrine	Cognitive	Level 2	Desirable	CBL,	MCQs	SAQs,	Medicine
UG-PB		How		pancreatic		Understand	to Know	Lecture,		Viva	Materia
12.25				insufficiency		/interpret		Small group		Voce	Medica
								discussion			Repertory



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Integration Of	Knows	Describe the	Discuss the	Cognitive	Level 2	Nice to	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Information	How	structure &	structure &		Understand	know	Small group		Viva	
12.26	(K-1)		function of	functions of Liver		/interpret		discussion		Voce	

Page **68** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows	liver & Gall	Explain the signs	Cognitive	Level 2	Desirable	CBL,	MCQs	SAQs,	Medicine
UG-PB		How	bladder	of liver		Understand	to Know	Lecture,		Viva	
12.27				insufficiency		/ interpret		Small group		Voce	
								discussion			
Hom		Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB		How		structure &		Understand		Small group		Viva	Repertory
12.28				functions of gall		/interpret		discussion		Voce	
				bladder							
Hom	Integration Of	Knows	Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	Biochemistr
UG-PB	Information	How	composition,	composition &		Understand		Small group		Viva	У
12.29	(K-1)		mechanism of	function of liver		/interpret		discussion		Voce	
			secretion,	bile							
Hom	_	Knows	function &	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Biochemistr
UG-PB		How	regulation of	composition &	Cognitive	Understand	IVIUST KITOW	Small group	JAQS	Viva	
12.30		11000	Bile	function of gall		/ interpret		discussion		Voce	У
12.30				bladder bile		/ interpret		uiscussion		Voce	
Hom	-	Knows	1	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How		control &	Cognitive	Understand	IVIUST KITOW	Small group	SAUS	Viva	
12.31		Tiow		mechanism of		/ interpret		discussion		Voce	
12.51				bile secretion		/ interpret		uiscussion		Voce	
Hom	-	Knows		Describe the	Cognitive	Level 2	Desirable	CBL,	SAQs	SAQs,	Medicine
UG-PB		How		clinical	Cognitive	Understand	to know	Lecture,	JAQJ	Viva	Materia
12.32		TIOW		significance of		/ interpret	to know	Small group		Voce	Medica
12.52				liver functions.		/ interpret		discussion		Vocc	Wicarea
Hom	-	Knows		Describe the	Cognitive	Level 2	Desirable	CBL,	SAQs	SAQs,	Medicine
UG-PB		How		clinical	coginare	Understand	know	Lecture,	57103	Viva	Surgery
12.33		11011		significance of		/ interpret	KIIOW	Small group		Voce	Surgery
12.00				Gall Bladder		, interpret		discussion		1000	
				functions				G.150G.551G.1			
Hom	Integration Of	Knows	Describe the	Recognise the	Cognitive	Level 1	Desirable	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Information		composition,	macro and micro		Recall	to know	Small group	,	Viva	Repertory
12.34	(K-1)		mechanism of	structure of Small				discussion		Voce	
	, ,			intestine							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	secretion,	Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	Biochemistr
UG-PB		How	function &	composition &		Understand		Small group		Viva	у
12.35			regulation of			/interpret		discussion		Voce	
			Small intestine								

Page **69** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



				functions of							
				Succus Entericus							
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB 12.36		How		mechanism & regulation of secretions of Succus Entericus		Understand / interpret		Small group discussion		Viva Voce	
Hom	1	Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB 12.37		How		process of digestion in small intestine		Understand / interpret		Small group discussion		Viva Voce	
Hom		Knows		Describe the	Cognitive	Level 2	Nice to	CBL,	SAQs	SAQs,	Medicine
UG-PB		How		Malabsorption		Understand	Know	Lecture,		Viva	Materia
12.37				Syndrome		/ interpret		Small group discussion		Voce	Medica
Hom	Integration Of	Knows	Describe the	Explain peristalsis	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Materia
UG-PB	Information	How	movement of	as intestinal		Understand		Small group		Viva	Medica
12.39	(K-1)		gastrointestinal	movement		/ interpret		discussion		Voce	
Hom		Knows	tract, it's	Describe	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB		How	regulation &	segmentation as		Understand		Small group		Viva	
12.40			function.	intestinal movement		/ interpret		discussion		Voce	
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable	CBL,	SAQs	SAQs,	Medicine
UG-PB		How		clinical		Understand	to Know	Lecture,		Viva	
12.41				importance of small intestine		/ interpret		Small group discussion		Voce	
Hom	Integration Of	Knows	Describe the	Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	SAQs,	
UG-PB	Information	How	movement of	movements of		Understand	Know	Small group		Viva	
12.42	(K-1)		large intestine	large intestine		/ interpret		discussion		Voce	
Hom		Knows	& defecation as	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Materia
UG-PB 12.43		How	a process.	process of absorption		Understand		Small group discussion		Viva Voce	Medica
12.43				&secretion in		/interpret		uiscussioii		voce	
				large intestine							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

The state of the s											
Hom		Knows	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Repertory	1
UG-PB		How	process of		Understand		Small group		Viva		
12.44			defecation		/interpret		discussion		Voce		

Page **70** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Discuss the	Cognitive	Level 2	Desirable	CBL,	SAQs	SAQs,	Medicine
UG-PB		How		clinical		Understand	to know	Lecture,		Viva	
12.45				significance of		/interpret		Small group		Voce	
				large intestine				discussion			
Hom	Integration Of	Knows	Describe the	Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,	
UG-PB	Information	How	physiology of	digestion &		Understand	Know	Small group		Viva	
12.46	(K-1)		digestion and	absorption of		/interpret		discussion		Voce	
			absorption of	carbohydrates							
Hom		Knows	nutrients	Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,	
UG-PB		How		digestion &		Understand	Know	Small group		Viva	
12.47				absorption of		/interpret		discussion		Voce	
				Fats							
Hom		Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	MCQs	LAQs,	
UG-PB		How		digestion &		Understand		Small group	SAQs	Viva	
12.48				absorption of		/interpret		discussion		Voce	
				Proteins							
Hom		Knows		Discuss	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	
UG-PB		How		absorption of		Understand		Small group		Viva	
12.49				water,		/interpret		discussion		Voce	
				electrolytes							
Hom		Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	MCQs	SAQs,	
UG-PB		How		absorption of		Understand		Small group		Viva	
12.50				vitamins &		/ interpret		discussion		Voce	
				minerals							
Hom	Information	Shows	Observe the	Observe the liver	Psycho	Level 1	Nice to	Demonstrati	Observ	Checklist	Medicine
UG-PB	Gathering	How	process of	function test	Motor	(Observe /	know	on	ation		
12.51	,Integration		conducting			Imitate)					
	Of		liver function								
	information,		test								
	Problem										
	Integration										
	(K-2)										
Hom	Information	Shows	Demonstrate	Perform the	Psycho	Level 2	Desirable	Demonstrati	Observ	Checklist	Anatomy
UG-PB	Gathering	How	the	inspection of	Motor	(Control)	to know	on	ation		Medicine
12.52	,Integration		Gastrointestina	gastrointestinal							
	Of		l system	system in the							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **71** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



	information, Problem		examination	clinical examination							
Hom UG-PB 12.53	Integration (K-2)	Knows How		Interpret the findings of inspection of gastrointestinal system in clinical examination	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Anatomy Medicine
Hom UG-PB 12.54		Shows How		Perform the palpation of gastrointestinal system in the clinical examination	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrati on	Observ ation	Checklist	Anatomy Medicine
Hom UG-PB 12.55		Knows H		Interpret the findings of palpation of gastrointestinal system in clinical examination	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Anatomy Medicine
Hom UG-PB 12.56		Shows How		Perform the percussion of gastrointestinal system in the clinical examination	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrati on	Observ ation	Checklist	Anatomy Medicine
Hom UG-PB 12.57		Knows H		Interpret the findings of percussion of gastrointestinal system in clinical examination	Cognitive	Level 2 Understand / interpret	Nice to know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Anatomy Medicine
Hom UG-PB 12.58		Shows How		Perform the auscultation of gastrointestinal system in the	Psycho Motor	Level 2 (Control)	Desirable to know	Demonstrati on	Observ ation	Checklist	Anatomy Medicine



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **72** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



		clinical examination							
Hom	Knows	Interpret the	Cognitive	Level 2	Nice to	Lecture,	MCQs	SAQs,	Anatomy
UG-PB	How	findings of		Understand	know	Small group		Viva	Medicine
12.59		auscultation of		/interpret		discussion		Voce	
		gastrointestinal							
		system in clinical							
		examination							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **73** of **98**

Topic No 1

Theory Renal Physiology
Practical Kidney Function Test



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Clinical Physiology

Learning Outcomes: -

At the end of the chapter Renal Physiology, the student must be able to –

- Describe structure & functions of the kidneys.
- Explain the role of renin-angiotensin system.
- Describe the mechanism of urine formation.
- Describe the process of filtration, secretion & reabsorption in kidney.
- Describe the concentration and diluting mechanism in the kidney.
- Describe the renal regulation of acid-base balance.
- Describe the physiology of micturition.
- Describe the Renal Function Tests.

S.No	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must know	TL method /	Format	Summat	Integration
	competency	area	Level	Competency	Learning	domain	level	/ desirable	media	ive	ive	- Horizontal
					Objectives /			to know /		Assess	Assessm	/ Vertical /
					outcomes			nice to		ment	ent	Spiral
								know				
Hom	Integration	Renal	Knows	Describe	Recognize the	Cognitive	Level 1	Must Know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB	Of	Physiol		structure &	structure of		Recall		Small group		Viva	Materia
13.1	Information	ogy		functions of	kidney &				discussion		Voce	Medica
	(K-1)			the kidneys.	nephron							
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	
UG-PB			How		functions of		Understand		Small group		Viva	
13.2					kidney		/ interpret		discussion		Voce	
Hom			Knows		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,	Anatomy
UG-PB			How		organization		Understand		Small group		Viva	Medicine
13.3					and function of		/ interpret		discussion		Voce	
					glomerulus							
Hom			Knows		Classify the type	Cognitive	Level 1	Must Know	Lecture,	MCQs	SAQs,	Anatomy
UG-PB					of nephrons		Recall		Small group		Viva	
13.4									discussion		Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018 At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101



At ui	At and I ode: I iparia, Idiaka: Wagiodia, District: Vadodara, Odjarat otate, INDIA: I in odde: 551700.1 none: 512000 2752027 07700, Ext No.5101													
E-mai	E-mail ld: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in Website: www.sumandeepvidyapeethdu.edu.in													
	Hom			Knows		Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy	
	UG-PB			How		structure and		Understand		Small group		Viva	1	ļ
	13.5					functions of		/ interpret		discussion		Voce		

Page **74** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom UG-PB 13.6	Integration Of Information (K-1)	Knows How	Explain the role of renin – angiotensin system	juxtaglomerular apparatus Explain the secretions from juxtaglomerular apparatus & their regulation	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	Medicine
Hom UG-PB 13.7	Integration Of Information (K-1)	Knows How	Describe the mechanism of urine formation	Explain the process of glomerular filtration	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	
Hom UG-PB 13.8		Knows How		Describe the regulation of Glomerular Filtration Rate	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	
Hom UG-PB 13.9		Knows How		Discuss the mechanism of GFR. Explain the factors affecting GFR	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	SAQs	LAQs, Viva Voce	
Hom UG-PB 13.10	Integration Of Information (K-1)	Knows How	Describe the process of filtration, secretion & reabsorption in	Discuss the general considerations of reabsorption & secretion	Cognitive	Level 2 Understand / interpret	Must know	Lecture, Small group discussion	MCQs	LAQs, Viva Voce	Medicine Biochemistr Y
Hom UG-PB 13.11		Knows How	kidney	Describe the renal transport mechanisms throughout the tubular segments	Cognitive	Level 2 Understand / interpret	Desirable to know	Lecture, Small group discussion	MCQs	SAQs, Viva Voce	Biochemistr y



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	Describe the	Cognitive	Level 2	Nice to	Lecture,	MCQs	Viva	
UG-PB		How	transport of		Understand	know	Small group		Voce	
13.12			individual		/ interpret		discussion			
			substances in							
			different							

Page **75** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



		Г		segments of		1					
				renal tubule							
Hom	Integration	Kno	ws Describe the	Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Medicine
UG-PB	Of	Hov		general	Cognitive	Understand	WIUST KITOW	Small group	SAUS	Viva	Medicine
	Information	ПО		consideration of						Voce	
13.13			and diluting mechanism in	urine		/interpret		discussion		voce	
	(K-1)		the kidney	concentration							
			the kidney								
11	_	14		mechanism	C '11'	1 1 2	Danisahla ta	Lastina	N460-	640-	D's shared
Hom		Kno	-	Describe the	Cognitive	Level 2	Desirable to	,	MCQs	SAQs,	Biochemistr
UG-PB		Hov	V	counter current		Understand	Know	Small group		Viva	У
13.14				multipliers		/ interpret		discussion		Voce	
Hom		Kno		Discuss the	Cognitive	Level 2	Desirable to		MCQs	SAQs,	
UG-PB		Hov	V	counter current		Understand	Know	Small group		Viva	
13.15				exchangers		/interpret		discussion		Voce	
Hom	Information	Kno		Discuss the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Biochemistr
UG-PB	Gathering	Hov		renal regulation		Understand		Small group		Viva	У
13.16	,Integration		regulation of	of acid-base		/interpret		discussion		Voce	
	Of		acid – base	balance							
Hom	information,	Kno	ws balance	Describe the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Biochemistr
UG-PB	Problem	Hov	V	buffer system in		Understand	know	Small group		Voce	У
13.17	Integration			the kidney		/ interpret		discussion			
	(K-2)										
Hom	Integration	Kno	ws Describe the	Define	Cognitive	Level 1	Desirable to	Lecture,	SAQs	LAQs,	
UG-PB	Of		physiology of	micturition		(Remember	Know	Small group		Viva	
13.18	Information		micturition			/ recall)		discussion		Voce	
Hom	(K-1)	Kno	ws	Discuss the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Anatomy
UG-PB		Hov	v	nerve supply of		Understand	know	Small group		Voce	
13.19				urinary bladder		/ interpret		discussion			
Hom		Kno	ws	Describe the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQs,	Anatomy
UG-PB		Hov	v	micturition		Understand		Small group		Viva	
13.20				reflex		/ interpret		discussion		Voce	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom	Information	Shows	Describe the	Perform the	Psycho	Level 2	Must know	Demonstrati	Observ	OSCE	Biochemistr
UG-PB	Gathering	How	Kidney	physical,	Motor	(Control)		on	ation		У
13.21	,Integration		function teste	chemical, and							
	Of			microscopical							
	information,			examination of							
	Problem			urine							

Page **76** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Knows	Recognize the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQ,	Biochemistr
UG-PB	(K-2)	How	normal values		Understand		Small group		Viva	у
13.22			of physical,		/interpret)		discussion		Voce	
			chemical, and							
			microscopical							
			examination of							
			urine							
Hom		Shows	Perform	Psycho	Level 2	Must know	Demonstrati	Observ	Checklist	Biochemistr
UG-PB		How	examination for	Motor	(Control)		on	ation		у
13.23			the abnormal							Medicine
			constituents of							
			urine							
Hom		Knows	Interpret the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQ,	Biochemistr
UG-PB		How	results of		Understand		Small group		Viva	у
13.24			examination for		/ interpret		discussion		Voce	Medicine
			the abnormal							
			constituents of							
			urine							
Hom		Knows	Interpret the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQ,	Biochemistr
UG-PB		How	renal clearance		Understand		Small group		Viva	У
13.25			test for		/ interpret		discussion		Voce	Medicine
			glomerular							
			function							
Hom		Knows	Interpret the	Cognitive	Level 2	Must know	Lecture,	SAQs	LAQ,	Biochemistr
UG-PB		How	renal clearance		Understand		Small group		Viva	У
13.26			test for Tubular		/ interpret		discussion		Voce	Medicine
			function.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Topic No	14
Theory	Biochemistry
Practical	Biochemistry Practical of carbohydrate, lipid, protein, Urine normal & abnormal constituents
Clinical Physiology	

Learning Outcomes: -

At the end of the chapter Biochemistry, the student must be able to –

- Describe the lipid, carbohydrate, and protein metabolisms.
- Describe the enzymes and their activities.
- Describe the role of Vitamins.
- Perform the quantitative estimation of Glucose, Total Proteins, Uric Acid in Blood.
- Perform the Lipid Profile.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

S.No	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must	TL method	Format	Summa	Integration
	competency	area	Level	Competency	Learning	domain	level	know /	/ media	ive	tive	- Horizontal
					Objectives /			desirable		Assess	Assess	/ Vertical /
					outcomes			to know /		ment	ment	Spiral
								nice to				
								know				

Page **78** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom	Integration	Biochemi	Knows	Describe the	Explain the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva
UG-PB	Of	stry	How	lipid	biosynthetic		Understand	know	Small		Voce
14.1	Information			Metabolism.	and catabolic		/interpret		group		
	(K-1)				pathways				discussion		
Hom			Knows		Explain the	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,
UG-PB			How		importance of		Understand	to Know	Small		Viva
14.2					lipids in the		/interpret		group		Voce
					body.				discussion		
Hom			Knows		Explain the	Cognitive	Level 2	Must	Lecture,	SAQs	SAQs,
UG-PB			How		different		Understand	Know	Small		Viva
14.3					properties of		/interpret		group		Voce
					lipids.				discussion		
Hom	Integration		Knows	Describe the	Discuss	Cognitive	Level 2	Must know	Lecture,	SAQs	SAQs,
UG-PB	Of		How	Carbohydrate	different types		Understand		Small		Viva
14.4	Information			metabolism	of		/interpret		group		Voce
	(K-1)				carbohydrates.				discussion		
Hom			Knows		List major	Cognitive	Level	Must	Lecture,	SAQs	SAQs,
UG-PB					functions of		1Recall	Know	Small		Viva
14.5					carbohydrates.				group		Voce
									discussion		
Hom			Knows		Discuss the food	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,
UG-PB			How		sources of		Understand	to Know	Small		Viva
14.6					carbohydrates.		/ interpret		group		Voce
									discussion		
Hom			Knows		Explain the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,
UG-PB			How		processes of		Understand	Know	Small		Viva
14.7					glycolysis		/ interpret		group		Voce
									discussion		
Hom			Knows		Explain the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,
UG-PB			How		process of		Understand	Know	Small		Viva
14.8					gluconeogenesi		/ interpret		group		Voce
					S				discussion		
Hom			Knows		Describe the	Cognitive	Level 2	Must	Lecture,	SAQs	SAQs,
UG-PB			How		process of ATP		Understand	Know	Small		Viva
14.9					production		/ interpret		group		Voce
					through				discussion		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **79** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



				oxidative							
				phosphorylation							
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	SAQs,	
UG-PB	Of	How	Protein	special features		Understand	Know	Small		Viva	
14.10	Information		Metabolism	of protein		/interpret		group		Voce	
	(K-1)		_	Metabolism				discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Nice to	Lecture,	SAQs	SAQs,	
UG-PB		How		functions of		Understand	know	Small		Viva	
14.11				intact amino		/interpret		group		Voce	
				acid				discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,	
UG-PB		How		oxidation of		Understand	Know	Small		Viva	
14.12				amino acid		/interpret		group		Voce	
								discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	LAQs,	Physiology
UG-PB		How		synthesis of		Understand	Know	Small		Viva	
14.13				proteins		/ interpret		group		Voce	
								discussion			
Hom		Knows		Discuss the	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,	
UG-PB		How		function of		Understand	to Know	Small		Viva	
14.14				nitrogenous		/interpret		group		Voce	
				part				discussion			
Hom]	Knows		Discuss the	Cognitive	Level 2	Must	Lecture,	SAQs	SAQs,	
UG-PB		How		exogenous &		Understand	Know	Small		Viva	
14.15				endogenous		/interpret		group		Voce	
				protein				discussion			
				metabolism							
Hom	Integration	Knows	Describe the	Discuss the	Cognitive	Level 2	Desirable	Lecture,	SAQs	SAQs,	Physiology
UG-PB	Of	How	enzymes and	concept of		Understand	to know	Small		Viva	
14.16	Information		their activities.	enzyme,		/interpret		group		Voce	
	(K-1)			chemical				discussion			
				reactions,							
				catalyst and							
				substrates.							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	Mention the	Cognitive	Level	Must	Lecture,	SAQs	LAQs,	Physiology
UG-PB			major functions		1Recall	Know	Small		Viva	
14.17			of enzymes.						Voce	

Page **80** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



								group discussion			
Hom UG-PB 14.18		Knows How		Discuss the importance of enzymes in the body.	Cognitive	Level 2 Understand / interpret	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Physiology
Hom UG-PB 14.19	Integration Of Information (K-1)	Knows	Describe the role of Vitamins	Define vitamin	Cognitive	Level 1 (Remember / recall)	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Physiology Community Medicine
Hom UG-PB 14.20		Knows		Classify vitamins	Cognitive	Level 1Recall	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 14.21		Knows		Mention common vitamin deficiencies		Level 1Recall	Desirable to Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	Physiology Medicine Community Medicine
Hom UG-PB 14.22	Information Gathering , Integration Of information	Knows	Demonstratio n of Uses Of Instruments Or Equipment	List the use of different instruments in biochemistry experiments	Cognitive	Level 1 Recall	Must Know	Lecture, Small group discussion	SAQs	SAQs, Viva Voce	
Hom UG-PB 14.23	, Problem Integration (K-2)	Shows How	Demonstrate the Qualitative Analysis of Carbohydrates	Perform the qualitative analysis of carbohydrate	Psycho Motor	Level 2 (Control)	Must Know	Demonstra tion	Observ ation	Checkli st	Pathology
Hom UG-PB 14.24		Knows How	, Proteins And Lipids	Interpret the results of Qualitative analysis of carbohydrate	Cognitive	Level 2 Understand / interpret	Nice to Know	Lecture, Small group discussion	SAQs	Viva Voce	Pathology
Hom UG-PB 14.25		Shows How		Observe the qualitative analysis of Protein	Psycho Motor	Level 1 (Observe / Imitate)	Desirable to Know	Demonstra tion	Observ ation	Checkli st	Pathology



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Page **81** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Hom		Knows		Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Pathology
UG-PB		How		results of		Understand	Know	Small		Voce	
14.26				Qualitative		/ interpret		group			
				analysis of				discussion			
				Protein							
Hom		Shows		Perform the	Psycho	Level 2	Nice to	Demonstra	Observ	Checkli	Pathology
UG-PB		How		qualitative	Motor	(Control)	Know	tion	ation	st	
14.27				analysis of Lipid							
Hom		Knows		Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Pathology
UG- PB		How		results of		Understand	Know	Small		Voce	
14.28				Qualitative		/ interpret		group			
				analysis of Lipid				discussion			
Hom	Information	Shows	Perform the	Perform the	Psycho	Level 3	Must	Demonstra	Observ	Checkli	Pathology
UG-PB	Gathering	How	quantitative	Quantitative	Motor	(Automatis	Know	tion	ation	st	
14.29	,Integration		estimation of	estimation of		m)					
	Of		Glucose, Total	glucose							
Hom	information	Knows	Proteins, Uric	Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Pathology
UG-PB	, Problem	How	Acid in Blood	results of		Understand	Know	Small		Voce	
14.30	Integration			Qualitative		/ interpret		group			
	(K-2)			analysis of				discussion			
				glucose							
Hom		Shows		Perform the	Psycho	Level 3	Must	Demonstra	Observ	Checkli	Pathology
UG-PB		How		Quantitative	Motor	(Automatis	Know	tion	ation	st	
14.31				estimation of		m)					
				Total proteins							
Hom		Knows		Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Pathology
UG-PB		How		results of		Understand	Know	Small		Voce	
14.32				Qualitative		/ interpret		group			
				analysis of total				discussion			
				protein							
Hom		Shows		Observe the	Psycho	Level 1	Nice to	Demonstra	Observ	Checkli	Pathology
UG-PB		How		Quantitative	Motor	(Observe /	Know	tion	ation	st	
14.33				estimation of		Imitate)					
				Uric Acid							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Hom		Knows	Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	SAQs,	Pathology
UG-PB		How	results of		Understand	Know	Small		Viva	
14.34			Quantitative		/ interpret				Voce	

Page **82** of **98**



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



				estimation of				group			
				Uric acid				discussion			
Hom		Shows	Perform the	Observe the	Psycho	Level 1	Must	Demonstra	Observ	OSCE	Pathology
UG-PB		How	Lipid Profile	laboratory	Motor	(Observe /	Know	tion	ation		
14.35				testing for Lipid		Imitate)					
				profile							
Hom		Knows		Interpret the	Cognitive	Level 2	Nice to	Lecture,	SAQs	Viva	Pathology
UG-PB		How		results of Lipid		Understand	Know	Small		Voce	
14.36				profile testing		/ interpret		group			
				done in a				discussion			
				laboratory							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Asse

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8. PRACTICAL TOPICS

PRACTICAL & CLINICAL PHYSIOLOGY:-

No	<u>Practical</u>	Demonstration / Performance
HAE	MATOLOGY	•
1	Study of the Compound Microscope	Performance
2.	Collection of Blood Samples	Performance
3	Estimation of Haemoglobin Concentration	Performance
4	Determination of Haematocrit	Demonstration
5	Hemocytometry	Performance
6	Total RBC Count	Performance
7	Determination of RBC Indices	Demonstration
8	Total Leucocytes Count (TLC)	Performance
9	Preparation And Examination Of Blood Smear	Performance
10	Differential Leucocyte Count (DLC)	Performance
11	Absolute Eosinophil Count	Demonstration
12	Determination of Erythrocyte Sedimentation Rate	Demonstration
13	Determination of Blood Groups	Performance
14	Determination of Bleeding Time and Coagulation Time	Performance
BIO	CHEMISTRY	
1	Demonstration of Uses Of Instruments Or Equipment	Demonstration
2	Qualitative Analysis of Carbohydrates, Proteins And Lipids	Performance
3	Normal Characteristics of Urine	Performance
4	Abnormal Constituents of Urine	Performance
5	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	Performance
6	Liver Function Tests	Demonstration



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



		75.05
7	Kidney Function Tests	Demonstration
8	Lipid Profile	Demonstration
9	Interpretation and Discussion of Results of Biochemical Tests	Demonstration
CLIN	IICAL PHYSIOLOGY & OPD	
1	Case Taking & Approach to pt	Performance
2	General Concept Of Examination	Performance
3	Examination of muscles, joints,	Performance
4	Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical Examination	Performance
5	Respiratory System- Clinical Examination, Spirometry, Stethography	Performance
6	Nervous System- Clinical Examination	Performance
7	Special Senses- Clinical Examination	Performance
8	Reproductive System- Diagnosis of Pregnancy	Performance
9	Gastrointestinal System- Clinical Examination	Performance
10	OPD (Applied Physiology)	Demonstration & Performance



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



9. ASSESSMENT PHYSIOLOGY THEME TABLE

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

PAPER - 1

Theme*	eme* Topics		Marks	MCQ's	SAQ's	LAQ's
Α	General Physiology	I	07	Yes	Yes	No
В	B Biophysics Science		07	Yes	Yes	No
С	Body fluids& Immune Mechanism	I	16	Yes	Yes	Yes
D	Cardiovascular system	П	16	Yes	Yes	Yes
E	Respiratory system		16	Yes	Yes	Yes
F	Excretory system	Ш	16	Yes	Yes	Yes
G	Skin & The Integumentary System	1	11	Yes	Yes	No
Н	Nerve Muscle physiology system	I	11	Yes	Yes	No

QUESTION PAPER BLUE PRINT

UNIVERSITY EXAM PAPER-I – 100 MARKS

MCOs – 10 Marks. SAOs – 50 Marks. FAOs – 40 Marks

Question Serial Number	Type of Question	Question Paper Format (Refer Theme table for themes)
Q1	Multiple choice Questions (MCQ)	1. Theme A
	All questions compulsory	2. Theme A
	1 mark each	3. Theme B
		4. Theme B
		5. Theme C
		6. Theme D
		7. Theme E
		8. Theme F
		9. Theme G
		10. Theme H
Q2	Short answer Questions(SAQ)	1. Theme A



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

	All questions compulsory	2. Theme B
	5 Marks Each	3. Theme C
		4. Theme D
		5. Theme E
		6. Theme F
		7. Theme G
		8. Theme G
		9. Theme H
		10. Theme H
Q3	Long answer Questions (LAQ)	1. Theme C
	All questions compulsory	2. Theme D
	10 marks each	3. Theme E
		4. Theme F

PAPER – 2

Theme*	eme* Topics		Marks	MCQ's	SAQ's	LAQ's
Α	A Endocrine system		21	Yes	Yes	Yes
В	B Central Nervous System		21	Yes	Yes	Yes
С	Digestive system and Nutrition	Ш	21	Yes	Yes	Yes
D	Reproductive system		17	Yes	Yes	Yes
E	Sense organs	Ш	12	Yes	Yes	No
F	Biochemistry	Ш	08	Yes	Yes	No

UNIVERSITY EXAM PAPER-II – 100 MARKS

MCQs – 10 Marks. SAQs – 50 Marks. FAQs – 40 Marks

Question	Type of Question	Question Paper Format
Serial Number	Type of Question	(Refer Theme table for themes)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Q1	Multiple choice Questions (MCQ)	1) Theme A
	All questions compulsory	2) Theme B
	1 mark each	3) Theme C
		4) Theme D
		5) Theme D
		6) Theme E
		7) Theme E
		8) Theme F
		9) Theme F
		10) Theme F
Q2	Short answer Questions (SAQ)	1) Theme A
	All questions compulsory	2) Theme A
	5 Marks Each	3) Theme B
		4) Theme B
		5) Theme C
		6) Theme C
		7) Theme D
		8) Theme E
		9) Theme E
		10) Theme F
Q3	Long answer Questions (LAQ)	1) Theme A
	All questions compulsory	2) Theme B
	10 marks each	3) Theme C
		4) Theme D

Distribution of Marks for Practical Exam:



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Practical Exam: 100 Marks				
Haematology	20 marks			
Bio-chemistry	20 marks			
Clinical Physiology	20 marks			
Spotting	30 marks			
Journal	10 marks			
Viva: 80 Marks	<u> </u>			
Viva Voce	80 marks			
Internal Assessment: 20				
IA	20			

The Pass Marks in Each Component of the Examination shall be 50%.

9B - Scheme of Assessment (formative and Summative)

Sr.	Professional	1 st term (1-6 Months)			2 nd Term	n (7-12 Mor	nths)	3 rd Term (13-18 Months)	
No	Course								
1	First	1 st PA	1 ST TT		2 nd PA	2 ND TT		3 rd PA	UE
	Professional								
	BHMS	20 Marks	100	100	20 Marks	100	100	20 Marks	
	ршиз	Practical/Viva	Marks	Marks	Practical/Viva	Marks	Marks	Practical/Viva	
			Theory	Practical/		Theory	Practical/		
				Viva			Viva		

For Internal assessment, Only Practical/Viva marks will be considered. Theory marks will not be counted)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

M

е

thod of Calculation of Internal Assessment Marks for Final University Examination:



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

PA1	PA2	PA3	Periodical	TT1	TT2	Terminal	Final
Practical/Viva	Practical/Viva	Practical/Viva	Assessment	Practical/	Practical/	Test	Internal
(20 Marks)	(20 Marks)	(20 Marks)	Average	Viva	Viva	Average	Assessment
			PA1+PA2+PA3/3	(100 Marks)	(100 Marks)	TT1+	Marks
						TT2/	
						200*20	
Α	В	С	D	E	F	G	D+G/2

PA- Periodical Assessment TT- Terminal Test UE- University Examination



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

10.

1

ST OF RECOMMENDED BOOKS

THEORY

TEXT BOOKS

- 1. John N A (2023)Chatterjee C C. Text Book of Physiology 14th Edition. CBS Publication. (CBDC based)
- 2. Tortora G (2020). Principles of Anatomy & Physiology. Wiley Publication.
- 3. Jain A (2021). Text Book of Physiology Vol 1 & 2. Avichal Publishing Company.
- 4. Reddy L P(2023)Fundamentals of Medical Physiology. CBS Publishers and Distributors(CBDC based)

REFERENCE BOOKS

- 1. Hall J. (2020). Guyton & Hall Text book of Medical Physiology. Elsevier Publication.
- 2. Khurana I (2021). Essential Medical Physiology. Elsevier Publication.

PRACTICAL & CLINICAL PHYSIOLOGY:-

- 1. Varshney VP, Bedi M, (2023) Ghai's Textbook of Practical Physiology: 10th Edition. Jaypee Brothers Medical Publisher (CBDC based)
- 2. John N Aet al (2021) C C Chatterjee's Manual of Practical Physiology: CBS Publishers and Distributors (CBDC based)
- 3. Jain A. (2019) Manual of Practical Physiology. 6th ed. Arya Publications.
- 4. Glynn M., William D. (2017). Hutchison's Clinical methods. 24th edition Elsevier Publication



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

11. LIST OF CONTRIBUTORS

Dr. Chirag Shah

Professor & HOD, Department of Human Physiology & Biochemistry

Smt. M. K. Sanghvi Homoeopathic Medical College, Miyagam-Karjan - 391240

Dr. Juhi Gupta

Assistant Professor,

Government Homoeopathic Medical College & Hospital, AYUSH Parisar, Bhopal 462003

Dr. Shishir Mathur

Professor & Vice Principal,

Dr. MPK Homoeopathic College, Hospital & Research Centre, Jaipur

Dr Ajay Chaudhary,



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

COMPETENCY BASED DYNAMIC CURRICULUM FOR FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Organon of Medicine and Homoeopathic philosophy and Fundamentals of Psychology)



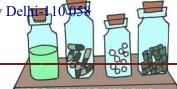
HOMOEOPATHY EDUCATION BOARD

NATIONAL COMMISSION FOR HOMOEOPATHY

MINISTRY OF AYUSH, GOVERNMENT OF INDIA

JAWAHAR LAL NEHRU BHARTIYA CHIKITSA AVUM HOMOEOPATHY ANUSANDHAN BHAVAN

No.61-65, Institutional Area, opp. 'D' block, Janak Puri, New Delli 10





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle



Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101

E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

INDEX

Sr. No	Title	Page No.
1.	Preamble	2
2.	Course Code and Name of Course	3
3.	Course Outcomes (CO)	3
4.	Contents of CourseHomUG-OM-I (Course Contents, Teaching Hours)	37
5.	Table 2-Learning Objectives (Theory) of Course HomUG-OM-I	41
6.	Psychology	59
7.	Assessment	136
8.	References/ Resources	145
9.	List of Contributors	147



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

I PROFESSIONAL BHMS

Subject NAME: Organon of Medicine and Homoeopathic philosophy and Fundamentals of Psychology

Subject CODE: HomUG-OM-I

TEACHING HOURS:

1 st BHMS Organon of Medicine and Homoeopathic Philosophy, and Fundamentals of Psychology					
YEAR	TEACHING HOURS-				
	LECTURES	NON-LECTURE			
1 ST BHMS	180	100			

Preamble-

Organon of Medicine with Homoeopathic Philosophy is a central fulcrum around which education and training of a homoeopathic physician revolves. It lays down the foundations of homoeopathic practice, education, training and research. It not only elaborates on the fundamental laws but also how to apply them in practice. It defines the qualities of a healer, guides the homoeopathic physician in inculcating values and attitude and develop skills.

Nature nurtures us. It is well depicted in our science. Therefore, Homoeopathy is in sync with Nature. The need to keep life force within us well balanced with nature is well established in Organon. Hahnemann as an ecologist was well ahead of his time. Philosophically, it connects man and his actions to the dynamic forces available in nature, thus bringing to fore the holistic approach. Lateralization of these concepts helps the student to develop insight into various facets of Life & Living. Organon orients the students to homoeopathy as an Art & Science. Its comprehensive understanding needs a core competency in logic and the concepts of generalization and individualization. Its treatment of disease process and relating to the concept of Miasm makes it a study of the process of scientific investigation.

The biggest challenge in teaching-learning of Organon is to first understand the fundamentals according to the Master's writing and then demonstrate them in practice. Quality and real time integration with other subjects helps a student to conceive the holistic perceiving of Man and Materia Medica. The concepts and knowledge required by the Physician with operational knowledge of management of patients and their diseases will

VIOLEN VIOLEN

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

need horizontal and vertical integration with Homoeopathic subjects and clinical subjects.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

First BHMS will need horizontal integration with Anatomy, Physiology, Homoeopathic Pharmacy and Homoeopathic Materia Medica. Organon will have spiral integration with itself and vertical integration with clinical subjects. Second year will need integration with pathology, community medicine, forensic medicine, along with other homoeopathic subjects. Third and fourth year establishes links with clinical subjects, research methodology and pharmacology.

Science is never static. Since the time of Hahnemann, medical science has advanced by leaps and bounds. Since Homoeopathy is based on principles rooted in nature, they would stand the test of time. However, their application in the changing times and circumstances would find newer avenues to heal. This is an opportunity for a homoeopath to connect the current advances while relating with the fundamental laws. Mastering all this will make him a master healer and will move him towards higher purpose of existence.

1. Course Code and Name of Course

Course Code	Name of Course
HomUG-OM-I	Organon of Medicine and Homoeopathic philosophy and Fundamentals of Psychology.

2.COURSE OUTCOMES (CO):

At the end of course in Organon of Medicine and Homoeopathic philosophy and Fundamentals of Psychology, the BHMS student shall be able to:

- 1. Explain the Cardinal Principles and Fundamental laws of Homoeopathy.
- 2. Describe the concept of Health, Disease and Cure in Homeopathy
- 3. Interpret a case according to the Hahnemannian Classification of Disease
- 4. Apply the Theory of Chronic Disease to determine the miasmatical background in a case.
- 5. Demonstrate case taking and show empathy with the patient and family during case taking
- 6. Demonstrate Analysis, evaluation of the case to form the Portrait of disease
- 7. Apply the concept of Susceptibility to determine posology in a given case
- 8. Interpret the action of the medicine in a case on the basis of Remedy reactions.
- 9. Apply knowledge of various therapeutic modalities, auxiliary measures & its integration with prevalent & other concepts in the management of patients.
- 10. Identify the various obstacles to cure and plan treatment accordingly.
- 11. Display qualities, duties & roles of a Physician as true practitioner of healing art
- 12. Develop the competencies essential for primary health care in clinical diagnosis and treatment of diseases through the judicious application of homoeopathic principles



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- 13. Recognize the scope and limitation of homoeopathy and to apply the Homoeopathic Principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community.
- 14. Discern the relevance of other systems of medical practice for rational use of cross referral and life saving measures, so as to address clinical emergences
- 15. Develop capacity for critical thinking and research aptitude as required for evidence based homoeopathic practice.
- 16. Demonstrate aptitude for lifelong learning and develop competencies as and when conditions of practice demand.
- 17. Be competent enough to practice homoeopathy as per the medical ethics and professionalism.
- 18. Develop the necessary communication skills to work as a team member in various healthcare setting and contribute towards the larger goals of national policies such as school health, community health, environmental conservation.
- 19. Identify socio-demographic, psychological, cultural, environmental & economic factors that affect health and disease and plan homoeopathic intervention to achieve the sustainable development Goal.

Specific Objectives of Organon of Medicine and Homoeopathic philosophy in1stBHMS

- 1. Recall the history of medicine and history of homoeopathy to relate its evolution
- 2. Correlate the first six aphorisms of Organon of Medicine for the study of anatomy, physiology, pharmacy.
- 3. Discuss the concept of health, indisposition and disease and its importance into the learning of anatomy, physiology, pharmacy and psychology
- 4. Discuss concept of Dynamization with health, disease and drug
- 5. Develop portrait of drug in the context of knowledge of anatomy, physiology, psychology and pharmacy
- 6. Explain the procedure and ethics of Drug proving

COURSE OUTCOMES (CO)of Organon of Medicine and Homoeopathic Philosophy for BHMS

At the end of I BHMS, the student should be able to,

- 1. Summarize the important milestones in the History of Medicine and development of Homoeopathy.
- 2. Value the contributions and qualities of Dr. Hahnemann as a physician and person
- 3. Recall the contributions of stalwarts in development of Homoeopathy
- 4. Explain the Cardinal Principles and Fundamental laws of Homoeopathy
- 5. Explain the Homoeopathic concept of Health, Disease and Cure in light of modern concepts





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

- 6. Apply Inductive and Deductive Logic in the study of the Basic principles of Homoeopathy
- 7. Describe the important features of the various editions and Ground plan of Organon of Medicine
- 8. Explain the meaning and significance of aphorisms §1-27
- 9. Relate the concepts of homoeopathic philosophy with other pre-, para-, and clinical skills by way of horizontal, vertical and spiral integration.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



A Constituent Institute of Sumandeep Vidyapeeth Beemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

3. Contents of Course HomUG-OM-I

Course Contents-

Introduction:

History of medicine

History of Homoeopathy

Short history of Hahnemann's life, his contributions, and situation leading to discovery of Homoeopathy

Brief history and contributions of Boenninghausen, Hering, Kent, R L Dutt, ML Sircar& B K Sarkar.

1.4 History and Development of Homoeopathy in brief in India, U.S.A. and European countries

Fundamental Principles of Homoeopathy.

Basic concept: Individualistic, Holistic& Dynamic

Life; Hahnemann's concept and modern concept.

Health: Hahnemann's concept and modern concept.

Disease: Hahnemann's concept and modern concept.

Cure.

Understanding Homoeopathy in vertical, horizontal & spiral integration with pre, para & clinical subject.

- Logic: To understand Organon of medicine and homoeopathic philosophy, it is essential
 to be acquainted with the basics of LOGIC to grasp inductive and deductive
 reasoning. Preliminary lectures on inductive and deductive logic (with
 reference to philosophy book of Stuart Close Chapter 3 and 16).
- 3. § 1 to 27 of Organon of medicine, § 105 to 145
- 4. The physician purpose of existence, qualities, duties and knowledge
- 5. Vital force- dynamization- homoeopathic cure- natures law of cure & its Implications-drug proving



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle



Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101

E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

1: Topics with reference list referring to Chapters from the text books					
Topic	Kent	Roberts	Close	Dhawale	
Understanding the first six aphorisms and its application in the study of anatomy, physiology, pharmacy.	1-6	1	6	4	
Concept of health, indisposition and disease and its importance in learning anatomy, physiology, pharmacy and psychology	1 to 9	2, 3, 4	6	2	
Dynamization and relating with health, disease and drug	10,11	2-6	14, 15	2, 16	
Developing portrait of drug with help of knowledge of anatomy, physiology, psychology and pharmacy		15	15	16	

Non lectures - community - OPD/IPD -

Students will be exposed to OPD/PD-community from first BHMS:

Students will understand the first six aphorisms in action and will get sensitized to socio-cultural-political-economical perspective of the community. They should develop insight into what constitutes health and how disease develops.

Introduce Journals from 1st year-

Habit of collecting evidence and noting them down vis-a-vis the expected objective will train them for evidence-based learning and inculcating the habit of using logic so inherent in Homoeopathic practice.

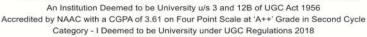
They also will realize the importance of skill and attitude and relevance of each subject in relation to Organon and Homoeopathic philosophy

They will write their experience of the clinic/OPD in relation to Observation/Cure/relief/Mission/Prevention/acute/chronic/indisposition etc.

- (i) 5 medicines from HMM to correlate with Physiology-Anatomy-Pharmacy.
- (ii) 5 cases observed in OPD



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Teaching Learning Method

Assignments- Group work

Problem Based Learning through Cases- Literature

Group Discussion – Problem based learning

Project work with its presentations in class

Practicing Evaluation & Feedback system- after Project work, assignments & Group Discussions.

Teaching Hours-

1 st BHMS Organon Classroom teaching and non-lecture hours										
YEAR TEACHING HOURS- Non-lecture										
	LECTURES									
1 ST BHMS	130	78								

Suma

Sumandeep Homoeopathic Medical College & Hospital

A Constitute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle



Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101

E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Teaching Hours Theory

Sr. No.	List of Topics	Term	Lectures	Non- Lectures
1	History of medicine in brief	I	5	5
	History and Development of Homoeopathy In brief in India, U.S.A. & European Countries			
2	Short history of Hahnemann's life, his contributions & situation leading to discovery of Homoeopathy	I	5	5
3	Brief History & Contributions of Boenninghausen, Hering, Kent, RL Dutt, ML Sircar & BK Sirkar	1	15	
4	Logic: To understand organon of medicine & homoeopathic philosophy, it is essential to be acquainted with the basics of LOGIC to grasp inductive & deductive reasoning. Preliminary lectures on inductive & deductive logic with reference to philosophy of Stuart Close.	I	5	5
5	Science & Art in Homoeopathy	I	5	
6	Different Editions & Constructions of Hahnemann's Organon of Medicine	I	10	5
7	Fundamental Principles of Homoeopathy	II	20	5
8	Basic concept of: Individualistic & Holistic Life: Hahnemann's concept & Modern Concept Health: Hahnemann's Concept & Modern Concept Disease: Hahnemann's Concept & Modern Concept Cure: Hahnemann's Concept & Modern Concept	II	5	5
9	§1-27&105-145 of Organon of medicine	11/111	60(20+40)	48
			130	78



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

4. Table 2-Learning Objectives (Theory) of Course HomUG-OM-I

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
TOPIC 1(1.1) – HISTORY O	FMEDICINE				1	1	T	ı	T	
Acquirin g and Integrati on of Informat ion	History of Medicine as it is evolved with important milestone s	Knows	Explain History of Medicine with important milestone s	Describe the evolution of Medicine		Level II Understand and interpret	Must Know	Lecture, small group discussio n, Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Practise of medicine

O.P. SET

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Knows	Summarize	Cognit	Level II	Nice	Lecture,	MCQ,	MCQ,	Practise
	important	ive	Understand	to	small	SAQ,	SAQ,	of
	Milestones in		and interpret	Know	group	LAQ,	LAQ,	medicine
	Development and Evolution				discussio	Quiz	Viva	
	of Medicine				n,			
					Seminars			

O'NO SELL

Sumandeep Homoeopathic Medical College & Hospital





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
		Knows		Describe the contribution of various Stalwarts in development of medicine		Level II Understand and interpret	Nice to Know	Lecture, small group discussio n, Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Practice of medicine

No.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

University 6 Second Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
TOPIC 1(1.2) – HISTORY O	F HOMOEOP	ATHY								
Acquirin g and Integrati on of Informat ion	History of Homoeop athy as it is evolved with important milestone s	Knows	Describe History of Homoeop athy	Describe History of Homoeopath y		Level II Understand and interpret	Must Know	Lecture small group discussio n Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica repertory

NO PROSE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Describe the	Cognit	Level II	Must	Lecture	MCQ,	MCQ,	Materia
important	ive	Understand	Know	small	SAQ,	SAQ,	Medica
milestones in the evolution		and interpret		group	LAQ,	LAQ,	repertory
of				discussio	Quiz	Viva	
Homoeopath				n Seminars			
У				Quiz			

A Constituent Institute of Sumandeeu Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
				Discuss the significance of important milestones in the evolution of Homoeopath y	Cognit ive	Level II Understand and interpret	Must Know	Lecture small group discussio n Seminar s Quiz	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica repertory

No.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

hriversity S econd Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Acquirin g and Integrati on of Informat ion	Hahnema nn's Life History	Knows	Describe Hahnema nn's Life History	Explain in detail the Life history of Dr. Hahnemann with his contribution towards Homoeopath y		Level II Understand and interpret	Must Know	Lecture Small Group Discussi ons Presenta tion	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica
				Discuss the contribution and qualities of Dr.Hahneman n as a physician and person		Level II Understand and interpret	Must Know	Lecture Small Group Discussi ons Presenta tion	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	

To the state of th

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

econd Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

5

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Acquirin g and Integrati on of Information	Stalwarts of Homoeop athy	Knows	Life History of Different Stalwarts In Homoeop athy	Describe Life History of Following stalwarts Dr. Kent, Dr. Boger, Dr.Boenningh ausen. Dr, Hering, Dr. T.F. Allen, Dr. M.L. Sircar	ive	Level II Understand and interpret	Desira ble to know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Repertory
				Discuss the Contributions of stalwarts in development of Homoeopath y	ive	Level II Understand and interpret	Desira ble to know	Lecture Small Group Discussio n Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Repertory

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

Su

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeetin Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Acquirin g and Integrati on of Informat ion	History & Developm ent of Homoeop athy in India, USA & European Countries	Knows	History & Developm ent of Homoeop athy in India, USA & European Countries	Explain the History & development of Homoeopath y in India, USA and European countries	Cognit ive	Level II Understand and interpret	Desira ble to know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica
		Knows		Discuss the Contributions of stalwarts in development of Homoeopath y in India, USA and European countries		Level II Understand and interpret	Desira ble to know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Repertory

700 to 100 to 10

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

TOPIC 1(1.5): Fundamental Principles of Homoeopathy

Sumand

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Acquirin g and Integrati on of Informat ion	Fundame ntal Principles of Homoeop athy	Knows	Understa nding the Fundame ntal Principles that govern Homoeop athy	Enumerate the cardinal principles of Homoeopath y	ive	Level II Understand and interpret	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Pharmac y
		Knows		Explain the Cardinal Principles and Fundamental laws of Homoeopath y	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Pharmac y

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Knows	Describe the	Cognit	Understand	Must	Lecture	MCQ,	MCQ,	Materia
	significance and	ive	(Level II)	know		SAQ,	SAQ,	Medica







Category - I Deemed to be University under UGC Regulations 2018 At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/Vertical/ Spiral
				importance of Cardinal Principles and Fundamental laws				Small Group Discussi on Seminar s	LAQ, Quiz	LAQ, Viva	Pharmac y
TOPIC	1(1.6): Concep	t of Health Di	sease and Cure	as per Hahnema	nn's conce	ept and correlation	n with mo	dern concept	•	L	
Acquirin g and Integrati on of Informat ion	Concept of Health Disease and Cure	Knows	Knowledg e and applicatio n of concept of Health, Disease and Cure	Define the terms Health, disease and cure according to Dr. Hahnemann	Cognit ive	Remember (Level I)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Anatomy physiolog y pharmacy Materia Medica

710/23

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumancies Vidvapesti, Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Knows	Define	the	Cognit	Remember	Must	Lecture	MCQ,	MCQ,	Anatomy
	terms H		ive	(Level I)	know	Small	SAQ,	SAQ,	physiolog
	disease	and				Group	LAQ,	LAQ,	у
	cure					Discussio	Quiz	Viva	pharmacy

Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeetin Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
				according to modern concept.				n Seminars			
		Knows		Explain Health, disease and cure according to Dr Hahnemann	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Anatomy , physiolog y, pharmacy
		Knows		Differentiate the Hahnemannia n concept of health, disease and cure from the modern concept	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Anatomy Physiolog Y Pharmac Y

Volume in the second se

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

ond Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Acquirin g and Integrati on of Informat ion	Different editions and Constructi ons of Organon of Medicine	Knows	Significan ce of Different editions and Constructi ons of Organon of Medicine	Explain the history & development different editions and Constructions of Organon of Medicine	Cognit ive	1	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica physiolog y and pharmacy
		Knows		Differentiate between Different editions and Constructions of Organon of Medicine	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Pharmac y

The state of the s

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

ycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		All the state of t				
						- 1
				c		
				3		



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Topic 2:		Γ	T .				T	Γ	Γ	Γ	T -
Acquirin g and Integrati on of Informat ion	Logic in Homoeop athy	Knows	Utility an Correlating Logic t Homoeopat hy	Inductive Logic 2.Deductive Logic	Cognit ive	Level 2 Understand and interpret	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Repertor y
		Knows		Differentiate between inductive and deductive logic using examples	Cognit ive	Level 2 Understand and interpret	Must know	Lecture Small Group Discussio n Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	

Suman

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Knows	Apply	the	Cognit	Level III	Must	Lecture	MCQ,	MCQ,	Repertor
	concept	of	ive	Decision/pr	know	Small	SAQ,	SAQ,	у
	Inductive Deductive			oblem		Group	LAQ,	LAQ,	
	Logic to			solving		Discussio	Quiz	Viva	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
				Fundamental Principles of Homoeopath Y				n Seminars			
Topic3։ Aլ	ohorisms 1-2	27 and 105-1	L 4 5								
Acquirin g and Integrati on of Informat ion	Aphorism	Knows	Understa nding the meaning of Aphorism s	Explain the meaning and significance of Aph. 1-27	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Anatomy , Physiolog y Pharmac y Materia Medica
				Explain Drug proving as per Aph 105-145	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on,	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Integrate d teaching with Homoeop athic



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

al

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

seminar Pharmacy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Topic 4 : F	hysician- Pu	rpose of ex	kistence, qua	lities, duties a	and know	vledge					
Acquirin g and Integrati on of Information	Homoeop athic Physician	Knows	Qualities and Attributes of a Physician	Recognize the qualities, duties and knowledge expected	Affect ive	Receiving	Desira ble to know	Lecture Small Group Discussi on Seminar	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	
				from a physician				S			
				Explain the Mission, qualities, duties & role of a Physician as true practitioner of healing art	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	

No.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

al

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
Topic 5: V	ital force- dy	namisatio	n- homoeopa	athic cure- nat	ures law	of cure & its In	mplicatio	ns- drug pr	oving	l	l
Acquiring and Integratio n of Informati on	Concept of Vital Force and Drug Dynamizat ion	Knows	Importanc e of Vital Force in health, disease and Cure and Drug Dynamizat ion	Explain the roleof vital force in health, disease and cure	Cogniti ve	Understand (Level II)	Must know	Lecture Small Group Discussio n Seminars	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Pharmacy
		Knows		Explain the concept of Homoeopat hic Dynamizatio n Enumerate	Cogniti ve Cognit	Understand (Level II)	Must know	Lecture Small Group Discussio n Seminars Lecture	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Materia Medica Pharmacy
		KIIOWS		the methods of	ive	(Level I)	know	Small Group	SAQ, LAQ,	SAQ, LAQ,	у

William Willia

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		Homoeopat hic		 Discussio	Quiz	Viva		
		THE						l

V/0/2

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
				Dynamizatio n				n Seminars			
		Knows		Explain the Nature's therapeutic law of cure	Cognit ive	Understand (Level II)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	
		Knows		Apply Nature therapeutic law of cure to Homoeopat hy	Cognit ive	Understand (Level III)	Must know	Lecture Small Group Discussi on Seminar s	MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	



A Constituent Institute of Sumandeeu Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Generic Compet ency	Subject Area	Millers Level: Does/Sh ows how/ Knows how/ Knows	Specific Compete ncy	SLO/ Outcome	Bloo ms Doma in	Guilbert's Level	Must Know/ Desira ble to know/ nice to know	T-L Methods	Formati ve Assess ment	Summa tive Assess ment	Integratio n Departm ents- Horizonta I/ Vertical/ Spiral
		Knows		Explain Drug Proving					MCQ, SAQ, LAQ, Quiz	MCQ, SAQ, LAQ, Viva	Pharmacy

Sumandeep A Constitute

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Table 3. Non-Lecture Activities

Sr. No	Non-Lecture Teaching Learning methods	Total Time Allotted per Activity (Hours)
1	Seminars/ Workshops	
2	Group Discussions	
3	Problem based learning	
4	Integrated Teaching	78 hours
5	Case Based Learning	
6	Self-Directed Learning	
7	Tutorials, Assignments, Projects	
	Total	78 hours



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Psychology

Preamble

Mind is an invisible dynamic force operating on the body which can be seen and felt with its expressions at multiple levels. While understanding Man it is important to know how he behaves, feels and thinks in general of his life and in different situations.

Health is that balanced condition of the living organism in which the integral, harmonious performance of the vital functions tends to the preservation of the organism ensuring the normal development of the individual. In a similar way, study of mind is an inseparable component of the study of man and is essential for prescribing. Thus mind remains an integral component of Homoeopathic prescribing.

In § 5 of Organon of Medicine, Dr Hahnemann talked of basic knowledges required for Homoeopathic practice of Holistic cure. According to him homoeopathic physician has to have knowledge of :

- a. Constitution of Man
- b. His moral & intellectual character.
- c. Mode of living habits
- d. His social & domestic relations
- e. His adaptations with the environment

Above knowledge will help the Homoeopathic physician not only to understand the person in the patient but also to identify the cause of suffering by delving in to detailed enquiry. This may take the form of exploring evolutionary aspects from childhood to present, from family history – past history to present illness - all of which will indicate the qualities of the human in health as well as in disease.

Psychology is a science of mind and behaviour which is important and necessary in all areas of life including the growth and development of human being. Theoretically, psychology examines psychological phenomena and behavioural patterns that appear as individual's external behavioural reactions against any stimulus - be it Biological–Psychological–Emotional –Social-Spiritual.

Modern concept of psychology has talked of Mental Health and Hygiene which indicates the importance and great need for ensuring psychological wellbeing in us. This state is under constant stress due to the rapid changes taking place in the life situation due to internal pressures and external environment.



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Index

Sr. No	Title	Page No.
1	Course Outcomes	61
2	Course Content	63
3	Teaching Methods	134
4	Number of Teaching Hours	135
5	Table.7- Assessment Summary	136
6	Number of papers and Mark Distribution	136
7	Scheme of Assessment (formative and Summative)	137
8	Calculation Method for Internal assessment Marks	138
9	Evaluation Methods for Periodical Assessment	138
10	Paper Layout	139
11	Distribution of Theory exam	140
12	Theme table	141
13	Question paper Blue print	142
14	Distribution of Practical Exam	144
15	Text Books and Reference books	145
16	List of Contributors	147



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Course outcomes:

- 1. Explain the concept of Mind as perceived by Hahnemann and other stalwarts
- 2. Define the structure of the mind as conscious and unconscious and its various constituents / components in terms of Emotion, Thinking, Behaviour, Sleep and Dreams
- 3. Identify the conscious expressions of Mind as Emotion, Thought and Behaviour
- 4. Explain the neurophysiological basis of mental functioning
- 5. Discuss the relationship between the growth of the brain and the mind and its correlation with physical growth of the from infancy to old age and psychosocial development.
- 6. Evaluate the role that emotions and intellectual functions play in our daily lives
- 7. Derive the importance of the role of 'Learning' in human adaptation and change
- 8. Discuss 'Personality' as a synthesis of inborn traits and learnt responses occurring over the growing years
- 9. Realize the various forms of 'conflict', their origins and their role in determining the quality of our personal and social lives
- 10. Integrate the concept of mind as conceived in homoeopathic philosophy with that in modern psychology
- 11. Demonstrate the importance of the study of the Mind in approaching the study of Repertory and Materia Medica
- 12. Realize how a healthy individual experiences the harmonious functioning of the different constituents of the mind
- 13. Summarise the importance of knowledge of Psychology in Modern life and in Homoeopathic practice

General Instructions

- 1. Instructions in psychology should be planned in such a way that students should be able to present a basic understanding of the structure of mind, brain and its functioning with the kind of interrelationship they are sharing with each other.
- 2. Each topic should be planned in parallel with others subjects of Homeopathy where ever relevant to achieve integration with other subjects.
- 3. Since this subject is dealing with the human mind and its functions, topic should be dealt in more interactive ways where maximum learning will be achieved by doing rather than memorizing the things.
- 4. Emphasis would be more on the organization of the brain areas, their functions and correlated with the medical concept and

Service Voluments

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

al

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

philosophical concept of Mind.



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



- 5. Student should learn the psychological organization with learning the importance of special senses and their functions in great details that forms the foundation of the subject.
- 6. Most of the basic topics can be studied in interactive ways, discussion based on clinical case or any relevant event/incidence of daily life.
- 7. Topics having philosophical connection should be taught with the help of discussion or in the form of story -telling with connections to the principles of philosophy.
- 8. Topics requiring a lot of analysis of information can be taught with role-play with directed observation method followed by discussion on the same pointing out its relevance and importance.
- 9. Nice to know topics along with a lot of community related information should be dealt with survey methods
- 10. Topics which are interrelated with other subjects of Homoeopathy should be presented and discussed.
- 11. Lectures or demonstration on the clinical and applied part of psychology should be arranged in the 3rd semester of the course and it should aim at demonstrating the structural-physiological –psychological basis of mental expressions of the symptoms and its value in Homeopathy.
- 12. Learning of applied psychology would be more qualitative in the various OPDs/Peripheral OPDs where contact with community will improve their knowledge, observation skills, attitude of communication with the community.
- 13. Some of the theoretical lectures should conclude with discussion on the learning achieved with its importance.
- 14. Periodical seminars on general topics related to philosophical aspect and its connection with psychology should be arranged for vertical, horizontal and spiral integration.
- 15. Role of observation and correlation should be demonstrated while discussing the intricacies of the subject of psychology.
- 16. Inter-departmental or joint seminars should be planned
- 17. While working on community survey- purpose should be kept very broad with the following objectives.
 - (i) Experiencing the community in actuality for the demographic configuration, different cultural traditions, different practices and inter-relationship and its effect on Mind and Body as a joint system.
 - (ii) Learning the functioning of human being in multiple situations of stress and process of getting adapted with those.
 - (iii) Quality of Mental Health of the community and its varied expressions
 - (iv) Quality of Inter-relationship within different castes, communities, religions and its impact on Individuals



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Course contents:

Note: Each topic should be related with relevant clinical examples and the relationship with the subjects of Homoeopathic Philosophy, Materia Medica and Repertory must be made.

- 1. Introduction to the study of Mind in Homoeopathy
 - A. Concept of Mind- i. Contemporary schools of psychology
 - ii. Concept of Mind by Hahnemann
- 2. Psychological organization and the interrelationship of Thought (Cognition), Feelings (Affect) and Behaviour (Conation); Conscious and Unconscious elements
 - A. Psychological Organisation i. Definition of Emotions and its types
 - ii. Definition of Thinking and its types
 - iii. Definition of Behaviour and its types
 - B. Effects on Thought (Cognition), Feelings (Affect) and Behaviour (Conation) on Mind and Body
 - C. Interrelationship of Thought (Cognition), Feelings (Affect) and Behaviour (Conation) on Mind and Body
 - D. Representation of Thought (Cognition), Feelings (Affect) and Behaviour (Conation) in Materia Medica
 - E. Representation of Thought (Cognition), Feelings (Affect) and Behaviour (Conation) in Repertory
- 3. Physiological and Evolutionary basis of behaviour -
 - A. Instincts, Conditioned and unconditioned reflexes
 - B. Conscious and unconscious behaviour
 - C. Scientific study of Behaviour and its expressions
 - D. Evolutionary study of behaviour
 - E. Understanding Relationship of Behaviour to Emotions and Thought

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

le le

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

F. Expressions of Behaviour in Repertory and Materia Medica





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- 4. Understanding Emotion, its different definitions and expressions in Repertory and Materia Medica
 - A. Scientific study of Emotions i. Definition of Emotions and its types
 - ii. Effects Emotions on Mind and Body
 - iii. Effect of emotions on sexual behaviour
 - iv. Interrelationship of Emotions on Mind and Body
 - B. Representation of Emotions in Materia Medica-
 - C. Representation of Emotions in Repertory
- 5. Understanding Intellect: Attention, memory and its function and expression in Repertory and Materia Medica Basic concepts of Thinking
 - A. Definition of Thinking and its types
 - B. Intelligence and its measurement
 - C. Effects of Thinking /Thought (Cognition) on Mind and Body
 - D. Representation of Thinking /Thought (Cognition) in Materia Medica
 - E. Representation of Thinking /Thought in Repertory
- Motivation and their types with role in our lives
 Study of Motivation and its types
 Importance of study of Motivation for Homoeopathic Physicians
- 7. Learning and its place in adaptation
 - A. Study Learning:

Definition of Learning and its types Study of relevance of Learning for Homoeopathic Physician Study of disturbances/ malfunctioning of Learning

B. Adaption

NO TO STATE OF THE PARTY OF THE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

al

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Definition and its dynamic nature Successful and unsuccessful adaptation



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



- 8. Growth and development of Mind and its expressions from Infancy to old age Study of Developmental Psychology
 - i. Normal developments since birth to maturity (both physical and psychological)
 - ii. Deviations- in Growth and Development and its effects on later behaviour
 - iii. Understanding the bio-psycho-socio-cultural-economical-political-spiritual concept of evolution
 - iv. Importance of above study to understand Materia Medica drug proving
- 9. Structure of Personality, the types, their assessment, relationship to Temperament and representation in Materia Medica
 - i. Definition of Personality and its types
 - ii. Various constituents of Personality like Traits and Temperament
 - iii. Theories of Personality by psychologists
 - iv. Measures for the assessment of Personality, relationship to Temperament and representation in Materia Medica
- 10. Conflicts: their genesis and effects on the mind and body
 - i. Conflicts and their types
 - ii. Genesis of Conflicts and effects on the mind and body
 - iii. Genesis of Conflicts and related Materia Medica images
- 11. Applied Psychology: Clinical, Education, Sports, Business, Industrial Application of knowledge of Psychological Components and its Integration in understanding
 - i. Psychological basis of Clinical Conditions
 - ii. Education
 - iii. Sports
 - iv. Business
- 12. Psychology and Its importance in Homoeopathic Practice for Holistic management of the Patient.



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 1 Topic 1: 1. Introduction to Psychology with overview of different schools



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Sr.No 1	Generic competency	Subject area	Millers Know/ Know how/ Show how/ Does	Specific competency	Specific Learning Objectives / Outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL method / media	Formative Assess ment	Summative Assessment	Integration Horizontal Vertical / Spi	- / I
HomUG- OM-l.1.1	Information collection	What is Psychology	Knows	Discuss Psychology as a science	Define Psychology	Cognitive	Recall level	Must know	Class room Lecture	МСО	SAQ LAQ		
	Information collection		know		Discuss the psychology as a science	cognitive	understand level II	Desirable to know	Lecture	True /False sentences	Short Note	Concept Logic-Induct /Deductive Logic fi Organon	of ve i m
	Information Analysis		Knows		Discuss the factors which make Psychology as a science	Cognitive	Understand Level II	Must know	Lecture	MCQ	SAQ Viva		
	Integration of information		Knows how		Explain the utility of the subject for a Homoeopath	Cognitive	Interpret Level II	Desirable to know	Lecture with discussion	MCQ	SAQ Viva	Horizontal integration w Organon	ith



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018





A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Information	Different	Knows	Know	the	Classify	Cognitive	Understand	Must	Class	SAQ	SAQ	Concept of
collection	schools of Psychology		schools	of	psychology based on	-	Level II	know	room lecture		Viva	Man/ Individualiza i from the Organon(use
					their Concept and objectives							as a preparate of concept for next topic)
		collection schools of	collection schools of	collection schools of Psychology different schools	collection schools of different	collection schools of Psychology different schools of Psychology based on their Concept and	collection schools of Psychology different schools of Psychology based on their Concept and objectives	collection schools of Psychology different schools of Psychology based on their Concept and objectives	collection schools of Psychology different schools of Psychology based on their Concept and objectives	collection schools of Psychology different schools of Psychology based on their Concept and objectives	collection schools of Psychology different schools of Psychology based on their Concept and objectives	collection schools of Psychology schools of Psychology based on their Concept and objectives



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 1: Topic 2-Concept of Mind in Psychology and Homoeopathy

Jemeste	1 1. Topic 2-	Concept of i	viiiiu iii F 3	ychology ai	id Hollide	opathy						
Sr.No 2	Generic compete ncy	Subject area	Millers Know/ Know how/ Show how/Do	Specific compete ncy	Specific Learnin g Objecti ves / Outcom es	Bloom 's domai n	Guilbert 's level	Must know / desira ble to rice to/ know	TL method / media	Format ive Assess ment	Summ -ative Assess ment	Integrati on - Horizont al / Systical /
Hom UG- OM- I.2.1	ion collectio n	Concept of Mind in Psycholog y and Homoeop athy	Knows	the concept of Mind	Describ e concept of Mind in differen	Cognit ive	Underst and and interpre t Level II	Must	Lecture/(use of 'Story telling')/ and Discussi on on	MCQ	LAQ/SAQ	Organon -Concept of Mind as per Hahnem ann/

Viole

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				t schools of psychol ogy				concept of Mind			Kent /BB/ Boger
Hom UG- OM- I.2.2	Informat ion organiza tion and synthesis	Knows	Relate concepts of Mind in psycholog y and homoeop athy	Discuss concept of Mind as in Organo n	Cognit	Integrat e Level III	Must	Small group discussio n Charts / Models Audio- visual aids	Quiz True- false test items	LAQ/SAQ/ Viva	Horizont al Organon

Sole Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Analysis	Knows	Compar	Cognit	Underst	Nice	Lecture	MCQ	SAQ	
		e and	ive	and	to				
		contras	-	Level II	know				
		concept							
		of mind							
		in							
		Organo							
		n with							
		that in							
		differen							
		t							
		schools							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

of		
psychol		
ogy		

Semester 1 –Topic- 3-Psychological organization of Mind and its interrelationship with Thought (Cognition), Feelings (Affect) and Behaviour (Conation)

Sr.No	Generic	Subject	Millers	Specific	Specific	Bloom	Guilbert'	Must	TL	Format	Summ	Integrati
3	competen cy	area	Know/ Know how/ Showho / Does	competenc y	Learning Objectiv es / Outcom es	's domai n	s level	know / desira ble to know / nice to know	metho d / media	ive Assess ment	-ative Assess ment	on - Horizon tal / Vertical / Spiral



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informati	Organizatio	Knows	Identify the	Classify	Cognit	Underst	Must	Caselet	DOPS	LAQ /	
UG-	on	n of Mind	how	topography	the	ive	and	know	s and	Full	SAQ	
OM-	synthesis	and		of the mind	divisions		Level II	KIIOW	discuss	form to		
1.3.1		interrelatio			of the		Leveili		ion	be		
		nship of its			mind					written		
		constituent			into					2		
					consciou					•		
					S,							
					unconsci							

Viores

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				ous and sub- consciou s element s							
Hom UG- OM- I.3.2	Informati on collection	Knows	Identify the constituent s of the conscious mind	Distiguis h the consciou s mental expressi ons as Emotion , Thought and Behavio ur	Cognit ive	Interpre t Level II	Must know	Caselet s and Matchi ng exercis es	МСО	LAQ, / SAQ/V iva	Integrati on with concept of Mental and Behavio ral Expressi ons or sympto ms from the Organo n



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informati	Interrelatio	Knows	Recognize	Identify	Affecti	Receive	Must	Audio-	Caselet	SAQ	Horizon
UG-	on	nship of	how	the	the	ve	المينما		visual	s with		tal
OM-	Interpreta	Emotions/		interrelation	relations		Levell		media	check		integrati
l.3.3	tion	The inclusion of		ship of	hip of					list		on
	ر - او	Thinking/		mental	mental							0
	Self			constituents	expressi							Organo
	reflection			and effects	ons in							n
					terms of							

Soler Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Behaviour	of Mind and	Emotion				
	and Mind	Body	,				
	and Body		Thinking				
			and				
			Behavio				
			ur on				
			Mind				
			and				
			Body				
						I	1

Manufacture in Manufa

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

ŀ	HomU G-OM-	Information Demonstrati on	Demonstrati on of abilities of observation	Show s How	Observet he mental expressio ns in terms of Emotion, Thinking and Behaviou r	Identify the evidences of psychological expression s of Emotion, Thinking and Behaviour	Affective	Receive Level I	Mus t kno w	Audio- visual means in Small groups	Film viewing	Viva	
		Analysis and intergation	Demonstrati on of abilities of integration	Kno ws how	Distinguis h the expressio ns into Emotion, Thinking and Behaviou r	Align the observations conducted above with the knowledge about emotions, thoughts and behaviour	Cognitive	Understa nd Level II	Mus t kno w	Process the observatio ns	Check list on the film shown	MC Q	
(HomU G-OM- -3-5	Analytical	Application of knowledge in practice	Show s how	Identify the mental expressio ns in Repertor y	Demonstra te the rubrics from the given case scenarios	Psychomot or	Imitate Level I	Mus t kno w	Case- based learning Teaching with Repertory	Assignme nts	SA Q	Hor learning with Reperto ry



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 1 Topic 4 Physiological basis of Emotions, Thought and Behaviour

Sr.No.	Generic compete ncy	Subject area	Millers Know/ Knowh ow/ Show how/ Does	Specific competenc y	Specific Learning Objective s / outcomes	Bloom 's domai n	Guilbert 's level	Must know / desira ble to know / nice to know	TL method / media	Forma tive Assess ment	Sum m - ativ e Asse ss men t	Integratio n - Horizontal / Vertical / Spiral
Hom UG- OM- I.4.1	informati on Collectio n	Physiolo gical basis of the mind	Knows	Understa nding the parts of the brain important in understan ding mental functions	List the parts of the Brain relevant to understan ding the mental functionin g	Cognit ive	Recall Level I	Must know	Lecture with a demonstr ation with model of brain	MCQ	SAQ	Anatomy - Brain structures can be dealt simultane ously



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

oltai

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Н	m	informati	Knows	Explain	Cognit	Underst	Must	Demonstr	MCQ	SAQ	
U	G-	on		the	ive	and and	know	ation of			
01	M-	ممالممانمه		different		interpre		brain			
1.4	2	collection		parts of		t Level II		model			
				the brain							





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

			which are the seat of the emotions of aggressio n, love, anger and anxiety				with discussion			
Hom UG- OM- I.4.3	K	(nows	Explain the different parts of the Brain which are the seat of intellectu al functions of attention, memory and executive functions	Cognit	Underst and and interpre t Level II	Must know	Demonstr ation of brain model with a discussion	MCQ	SAQ	

VIO. Z

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumantieen Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom UG- OM- I.4.4		Knows		Explain the different parts of the Brain which are responsibl e for simple	Cognit ion	Underst and and interpre t Level II	Desira ble to know	Group discussion	MCQ	SAQ	
Hom UG- OM- I.4.5	Informati on Interpret ation and Synthesis	Knows	Discuss the genesis of Emotions, Thinking, Behaviour	behaviour Integrate	Cognit	Proble m solving Level III	Must know	Lecture with PPT	MCQ	SAQ	Integratio n with Psycho- physiolog y



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 1: Topic 5: Understanding behaviour, its origins and its representation in repertory and Materia medica

Sr. No	Generic Competen cy	Subject area	Millers Know/ Know how/ Show how/	Specific compete ncy	Specific Learning Objectives / Outcomes	Bloom 's domai n	Guilbert's level	Must know / desira ble to know / nice to know	TL method / media	Format ive Assess ment	Summ -ative Assess ment	Integration - Horizontal / Vertical / Spiral
	Informatio n Informatio	Behaviour and Functioning and the origins	Does Knows Knows	Instincts and reflexes and their importan	Define instinct and reflex Enumerate the	Cognit ive Cognit ive	Recall Levell Recall Levell	Must know	Lecture Lecture	MCQ MCQ	MCQ MCQ	Physiology
	n			се	instincts seen across the animal species			know				
	Informatio n		Knows		Enumerate the reflexes	Cognit ive	Recall Level I	Must know	Lecture	MCQ	MCQ	

Viola Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

			seen in the new born							
Informatio n Analysis	Knows		Discuss the role and limitations of these ensuring in our survival	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ/V iva	
Informatio n	Knows		Define Conditione d and Unconditio ned reflex	Cognit ive	Recall Level I	Must know	Lecture	MCQ	MCQ	
Informatio n	Know	Define Behavior and Functioni ng	Define Behaviour as externally observed expression s	Cognit ive	Recall Level I	Must know	Lecture and AV methods	MCQ	MCQ	Organon + Repertory – Concept of symptomato logy- Physical symptoms



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informatio	Knows	Differentia	Cognit	Underst	Must	Lecture	SAQ	SAQ/V	1
n		te	ive	and and	know			iva	1
Amalysis		behaviour		interpre					1
Analysis		as being of		t Level II					
		conscious							



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

Self awareness		and unconscio us							
Informatio n collection	Know	Define functionin g as expression s of the system which needs special instrument s to measure	Cognit ive	Recall Level I	Must know	Lecture and Demonstra tion	МСО	MCQ	
Informatio n Analysis	Know	Elaborate on the difference between Behaviour and Functionin g	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ/V iva	

NO AND STREET

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

oltal

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Informatio	Knows	Discuss the	Cognit	Underst	Must	Lecture	LAQ	LAQ	ı
	n		scientific	ive	and and	know				1
			methods		interpre					ı
					t Level II					1

Voltage III

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

System thinking				of studying behaviour						
Informatio n		Knows	Origins and function of Behaviou r	Draw a list of species specific behaviours in birds, fish and primates	Cognit ive	Recall Level I	Must know	Lecture	MCQ	MCQ
Informatio n Analysis		Knows		Discuss the function of these specific behaviours	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ Viva
Informatio n	Control of Behaviour	Knows	Factors influencin g behaviour	Discuss the factors which regulate any two of the species specific behaviours listed above	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ Viva



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

al

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Informatio	Knows	Diff	erentia	Cognit	Underst	Must	Lecture	LAQ	LAQ	
	n		te	innate	ive	and and	know				
			and								

No.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Synthesis		learned behaviour as originating from unconditio ned and conditione d reflexes		interpre t Level II					
Analytical	Knows	Discuss how emotions are the determina nts of behaviour and functionin g	Cognit ive	Underst and and interpre t Level I	Must know	Lecture	SAQ	SAQ Viva	
Analytical	Knows	Discuss how thoughts are is the determina nt of behaviour and	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ Viva	



A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

				functionin g							
Informatio n Analysis	BehaviourBehavio urand Homoeopathy	Knows	Represen tation of Behaviou r in the repertory	Illustrate the place of behaviour in repertory	Cognit ive	Underst and and interpre t Level II	Must know	Demonstra tion	Checkli st	MCQ / Viva	Repertory
Informatio		Knows	Represen	Illustrate	Cognit	Underst	Must	Demonstra	Checkli	MCQ /	Materia
n			tation of	the	ive	and and	know	tion	st	Viva	Medica
Synthesis			behaviour in Materia Medica	representa tion of behaviour in Materia Medica		interpre t Level II					

Semester 2 Topic 1-Understanding emotions and their representation in the repertory and Homoeopathic Materia Medica (HMM)



A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Sr.	Generic	Subject	Mill	Specific	Specific	Bloom	Guilbert's	Must	TL	Formativ	Summ	Integratio
No	Compete ncy	area	ers Kno w/ Kno w	competen	Learning Objective s / Outcomes	's domai n	level	know / desira ble to know / nice to know	method / media	e Assess ment	-ative Assess ment	n - Horizontal / Vertical / Spiral

V/O.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		how / Sho w how / Doe s									
Informati on	Understan ding emotions, the types	Kno ws	Define emotions and differentia	Define emotions, mood and feelings	Cognit ive	Recall Level I	Must know	Lecture	MCQ	MCQ	
Analysis	and their origins	Kno ws how	te from feeling and mood	Differenti ate the above three from each other	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	Caselets	SAQ/V iva	
Observati on Empathy		Sho ws	Recognitio n of facial expression s	Recognize different emotions exhibited on the screens	Affecti ve	Receive Level I	Must know	Images of facial expression s	Spotters	MCQ	

O.L.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vidvaueeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

System thinking	Kno w		Discuss the different ways that emotional expressio n is perceived by us	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	MCQ	MCQ	
Informati on	Kno	Classificati on of emotions	Discuss the classificati on of emotions Primary and Secondar y; Positive and negative	Cognit ive	Underst and and interpre t Level II	Nice to know	Lecture	MCQ	MCQ	

Violation of the state of the s

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Analysis	Kno ws	Discuss the	Cognit ive	Underst and and	Nice to	Lecture	SAQ	SAQ/V iva	Integratio n with
		implications and limitation of the above		interpre t Level II	know				Kent's concept of hierarchy

1012

Sumandeep Homoeopathic Medical College & Hospital





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

			classificati on							of mental symptoms
Informati on collection	Knows	Understan d theories of emotions and their significanc e	Describe the prominent theories of emotions James Lange Cannon- Bard Schaster- Singer Cognitive Mediation al theory	Cognit	Underst and and interpre t Level II	Nice to know	Lecture with cassettes	SAQ	SAQ/V iva	Integratio n with signs and symptoms from HMM of few prominent remedies studied simultane ously



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Informati	Kno	The	Cognit	Recall	Nice	Lecture	SAQ	SAQ	Integratio	
	on	ws	Bhava-	ive	level-I	to	with			n with the	
	collection		Rasa			know	multimedi			concept of	
	collection		theory of				a-e.g.			channeliza	
			emotions				video films			tion and	
							or images			its	
							demonstr			importanc	
							ating the			e in the	
										healing	

Orac

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

							theory of Bhav-Rasa			process or cure from the 1 st aphorism of Organono n
0	nformati on Analysis	Kno ws	Differenti ate the five theories from each other	Cognit	Underst and and interpre t Level II	Nice to know	Lecture	Essay writing/M odel preparati on on each theory (can be considere d as a project for practical)	LAQ	



A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Informati	Kn	าด	Evaluate	Cognit	Proble	Nice	Discussion	LAQ	LAQ	
on	ws	S	the	ive	m	to	with			
Synthesis			implicatio ns of each		solving level -III	know	examples			
Problem			of the		ievei-iii					
solving			theories in understan							

10,100

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				ding emotions							
Informati on collection	Biological view of emotions	Kno ws	Biological basis of emotions	Enumerat e the constitue nts of the limbic system important in the understan ding of emotions	Cognit ive	Recall Level	Must know	Lecture with model	MCQ	MCQ/ Viva	+ Physiolog y
Informati on Analysis and Synthesis		Kno ws		Discuss the role of the different constitue nts of the limbic system in expressio n and regulation of emotions	Cognit	Underst and and interpre t Level II	Must know	Discussion with models	LAQ	LAQ	

V10-72

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati on Analysis	Kno ws		Discuss the effects of hormones in influencin g emotions	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ/V iva	Physiolog y
Informati on Synthetic	Kno ws	Sex and emotions	Define sexual activity in terms of emotional arousal	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	LAQ	LAQ	
Informati on Synthesis	Kno ws		Describe the participati on of brain systems in sexual behaviour	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	LAQ	LAQ	

10 to
Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Kn	no	Discuss	Cognit	Underst	Must	Lecture	SAQ	SAQ/V
on	ws	S	the effect	ive	and and	know			iva
interpret ation			of early influences on sexual behaviour		interpre t Level II				

LA TANA

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Kno	Discuss	Cognit	Underst	Must	Lecture	SAQ	SAQ/V
on	WS	the effects	ive	and and	know			iva
		of socio-		interpre				
		cultural 		t Level II				
Synthesis		surroundi						
		ngs on sexual						
		behaviour						
		Deriavioui						
Informati	Kno	Enumerat	Cognit	Recall	Must	Lecture	MCQ	MCQ
on	WS	e the	ive	Level -I	know			
collection		varieties						
		of sexual						
		orientatio						
		n seen						
Informati	Kno	Identify	Cognit	Recall	Must	Lecture	MCQ	MCQ/
on	WS	gender	ive	Level -1	know			Viva
		identity						
		and sexual						
		identity						



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University

Sity

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

awarenes s the challenge s faced by differently sexually Level-II know of cases Role play	Self	Kno	Recognize	Affecti	Receive	Must	Visual clips	SAQ	SAQ/V	l
s challenge s faced by differently sexually	awarenes	WS		ve	الـامىيم ا	know	of cases		iva	l
oriented persons in society	S		s faced by differently sexually oriented persons in		Level-II		Role play			

Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Wholistic	Kno	Emotions	List the	Cognit	Recall	Must	Lecture	MCQ	MCQ/	
on collection	Holistic approach to Emotiona I health	WS	and their effects on the self and others	effects of emotions on the human system in terms of cognitive, behaviour al and physical system	ive	Level-I	know			Viva	
Systems thinking		Kno ws		Discuss the pathways through which emotions affect cognition, behaviour and physical system	Cognit	Underst and and interpre t Level II	Must know	Lecture with demonstr ative examples	LAQ	LAQ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Kno	Positive	Define	Cognit	Recall	Must	Lecture	SAQ	SAQ/	
on collection	WS	emotions and their	happiness , joy and peace	ive	Levell	know	with demonstr	Essay	Viva	

VIOLES

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		effect or health					ative examples			
Informati on Analysis	Kno w		Describe the brain mechanis ms responsibl e for states of happiness , joy and peace	Cognit ive	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ	Anatomy
Informati on Synthesis	Kno		Discuss the effects of states of happiness , joy and peace on human systems	Cognit	Underst and and interpre t Level II	Must know	Lecture	LAQ	LAQ	Physiolog y



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Holistic	Kno	Explore	Affecti	Receive	Must	Lecture	LAQ	LAQ	Integratio
approach	WS	the	ve	Lovol	know	 with			n with
Self		different		Leve-I					concept of
		mechanis				demonstr ative			harmoniu
awarenes		ms for							ms way
5		maintaini				examples			life or
		ng a state							balance

1042

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeen Vidvageeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

			of joy and peace							life from Organon
Informati on collection	Kno ws	Influence of Cultural on expression s of emotions		Cognit ive	Recall level-I	Nice to know	Lecture	MCQ Project on collection of informati on from different culture and their concept of emotions and its expressio ns	MCQ/ Viva	

7/10 y

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Holsitic	Kno	Discuss	Cognit	Underst	Nice	Lecture/	SAQ	SAQ/V	
Holistic approach	WS	the implicatio ns of cultures affecting emotional expressio n	ive	and and interpre t Level II	to know	Films	above exercise will be useful here as well	iva	



A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Emotions	Kno	Represent	Illustrate	Cognit	Underst	Must	Demonstr	DOPS	MCQ	Repertory
on	and	WS	ation of	the place	ive	and and	know	ation			
Amalusia	Homoeop		Emotions	of		interpre					
Analysis	athy		in the	emotions		t Level II					
			repertory	in							
				repertory							
Informati		Kno	Represent	Illustrate	Cognit	Underst	Must	Demonstr	DOPS	MCQ	Materia
on		WS	ation of	the	ive	and and	know	ation			Medica
Synthesis			emotions in Materia	represent ation of		interpre t Level II					
			Medica	emotions		LEVEIII					
			Ivicalca	in Materia							
				Medica							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 2 Topic 2-Understanding intellect and its representation in repertory and materia medica – Part-I Attention, concentration and memory

Sr. No	Generic Compete ncy	Subject area	Millers Know/ Knowho w/ Showho w/ Does	Specific competen cy	Specific Learning Objective s / Outcome s	Bloom's domain	Guilbert's level	Must know desirab e to know nice to know	TL method / media	Formati ve Assess ment	Summ -ative Assess ment	Integra tion - Horizo ntal / Vertical / Spiral
	Informati on collection	Introducti on to attention and concentra tion the	Knows	Definition of terms with psycho- physiologi cal	Define attention and concentra tion	Cognitiv e	Recall Level I	Must know	Lecture	MCQ	MCQ/ Viva	
	Informati on interpret ation	underlying psycho- physiologi cal mechanis ms, regulation and	Knows	mechanis ms	Enumerat e the brain regions which are involved in these functions	Cognitiv e	Recall Level I	Must know	Lecture with model	MCQ	MCQ/ Viva	Anato my

V10-72

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

on	mati nesis	applied aspects	Knows		Discuss the neural processes which are responsibl e for regulating attention and concentra tion	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ/V iva	Physiol ogy
Infor on Inter ation	-		Knows	Control over attention and concentrat ion	Discuss the factors which affect attention and concentra tion	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	MCQ	MCQ/ Viva	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

rersity and Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Knows	Realize	Affective	Receive	Must	Demonstr	- ?	-	
on		the above		Level-I	know	ation	?		
Interpret ation and synthesis		processes in our daily life		Level-I			survey on attentio n span with the		

Su

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumancies Vidvapesti, Deemed to be University





								help of multime dia or any activity		
on	formati n ollection	Knows	Discuss the different physical and psycholog ical methods used for regulating attention and concentra tion	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	LAQ	LAQ	



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati	Applied	Knows	Applicatio	Discuss	Cognitiv	Underst	Must	Lecture	SAQ	SAQ/V	Spiral
on	aspects of		n of	the	е	and and	know	Video		iva	integra
Interpret	attention		attention	effects of		interpre		video			tion
ation			and	disturbed		t Level II					with
ation			concentrat	attention							anatom
			ion	in							y and
				childhood							physiol
				and adult							ogy
				life							

Viole

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumancies Vidvapesti Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati on Interpret ation		Knows	Represent ation of attention and concentrat ion in the repertory	Identify the rubrics representi ng attention and	Cognitiv e	Underst and and interpre t Level II	Must know	Demonstr ation	DOPS	MCQ	use of all the 3 reperto ries
Informati		Knows	Reflection	concentra tion in the repertory	Cognitiv	Undorst	Must	Domonstr	540	5400/	Source
on Interpret ation		Knows	of attention in Materia Medica	Identify the reflection of attention and concentra tion in remedies	Cognitiv e	Underst and and interpre t Level II	Must know	Demonstr ation	SAQ	SAQ/V iva	Source s of HMM
Informati on collection	Memory types, processes and	Knows	Types of Memory and processes	Enumerat e the types of memory	Cognitiv e	Recall Level I	Must know	Lecture	MCQ	MCQ	

EP VIOLE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Informati	applied	Knows	Discuss	Cognitiv	Underst	Must	Lecture	SAQ	SAQ/V	Integra	
	on	aspects		the	e	and and	know		Project	iva	tion	
	Interpret			models of		interpre			,		with	
	Interpret ation			memory		t Level II			on models		anatom	
	ation								models		y and	

Viola M

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

			Informati on- processin g And neural network					of Memory		physiol ogy
Informati on Analysis	Know		Discuss the function of the types of memory in our daily lives	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	LAQ Activity on memory games and its importa nce in day to day to life	LAQ	
Informati on collection	Know	Factors affecting memory and their regulation	Enumerat e the factors which affect different types of memories	Cognitiv e	Recall Level I	Must know	Lecture	MCQ	MCQ/ Viva	

Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvaneeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati on Interpret ation		Know		Discuss different ways of assessing different types of memory	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	SAQ Activity based on memory games (connect ion can be linked to concept of MSE/M MSE)	SAQ/V iva	
Informati on Collectio n and Interpret ation	Forgetting , its mechanis ms and implicatio ns	Know	Forgetting , the types and the implicatio ns	Discuss the reasons for forgetting	Cognitiv e	Underst and and interpre t Level II	Must know	Lecture	SAQ	SAQ/V iva	

SEP VO

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Inforn	ati	Know	Discuss	Cognitiv	Underst	Must	Lecture	SAQ	SAQ/	
on Synth	sis	how	ways of enhancin g recall	e	and and interpre t Level II	know	Demonstr ation with examples	Memory games with concept of	Viva	

Viores 1

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

							mnemo nics		
Informati on collection	Knows	Describe the state of memory with senescenc e	Cognitiv e	Recall Level I	Must know	Lecture	SAQ	SAQ/V iva	

100 m

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



Informati on	Knows	Discuss the	Cognitiv e	Underst and and	Must know	Lecture	SAQ	SAQ/V iva	Integra tion
Analysis and Interpret ation		implicatio ns of loss of memory with advancing age		interpre t Level II			on state of memory function with advanci ng age (a small article can be publishe d with the help of survey findings)		with anatom y and physiol ogy

Violation of the state of the s

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informati on Interpret ation	Applied aspects of Memory	Knows	Memory changes	Describe ways in which memory can get distorted	Cognitiv e	Underst and and interpre t Level II	Nice to know	Lecture	-	-	
Informati on Analysis and Interpret ation		Knows		Discuss ways of reconstru cting a lost memory	Cognitiv e	Underst and and interpre t Level II	Nice to know	Lecture	-	-	
Informati on Interpret ation		Knows		Discuss the implicatio ns of the dangers of reconstru ction of memory in our everyday life	Cognitiv e	Underst and and interpre t Level II	Nice to know	Lecture	-	-	

South Violation

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Informati	Homoeop	Knows	Repre	sent	Identify	psychom		Must	Demonstr	DOPS	MCQ	
	on	athic		ation	of	the	otor	Underst	know	ation			
				sharp	and	rubrics		and and					
				loss	of	representi							



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

collection , Interpret ation	aspects of memory		memory in the repertory	ng memory issues in the repertory		interpre t Level I					
Informati on collection and Interpret ation		Knows	Reflection of memory issues in Materia Medica	Identify the reflection of memory in remedies	Cognitiv e	Underst and and interpre t Level I	Must know	Demonstr ation	SAQ	SAQ/V iva	

Semester 2 Topic 3-Understanding intellect and its representation in repertory and materia medica —Part-II Perception and Intelligence



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Sr.N	Generic	Subject	Mill	Specific	Specific	Bloom's	Guilber	Must	TL	Formativ	Summ	Integration -	
0	Compet ency	area	ers Kno w/ Kno w how / Sho w	compete	Learning Objectives / Outcomes	domain	t's level	know / desira ble to know / nice to know	method / media	e Assess ment	-ative Assess ment	Horizontal / Vertical / Spiral	,

P VIOLES

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom UG- OM- 2.2.1	Information collection Information organization and Interpretation	Discuss Perceptu al organizat ion	how / Doe s kno ws	Describe Perceptio n and differenti ate from sensation s and thinking	Define Perception. Relate perception to sensory processes and differentiat e from thinking	Cognitio n Cognitio n	Recall level I Unders tand and interpr et Level II	Must know	Small group discussio n Visual films	MCQ	MCQ	Horizontal Anatomy and Physiology
Hom UG- OM- 2.2.2	Informat ion Synthesi s		kno w	Genesis of perceptio n and importan ce of ground	Describe the Psychophy siology of perception	Cognitio n	Unders tand and interpr et Level II	Must know	Small group discussio n	MCQ	MCQ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informat	Kno	Dynamics	Describe	Cognitiv		Must	Small	Observat	MCQ/	
UG-	ion	ws	of	the role of	е	Unders	know	group	ion	Viva	
OM- 2.2.3	interpret ation	how	perceptio n and perceptu al errors	attention and state of the mind, depth, constancy, movement in Perception		tand and interpr et Level II		activities	Examples or Activity indicatin g the role of in attention in perceptio n		
Hom UG- OM- 2.2.4	Informat ion synthesi s	Kno w		Explain the physiologic al and psychological basis for Perceptual errors.	Cognitiv e	Unders tand and interpr et Level II	Desir able to know	Films and images	Project	MCQ/ Viva	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informat	Kno	Social	Discuss	Cognitiv	Unders	Must	Class	MCQ	LAQ/S	
UG-	ion	W	perceptio	determinan	е	tand	know	room	+	AQ	
OM-	synthesi		n and its	ts of social		and		lecture	_		
2.2.5	S		impact on	perception		interpr			Survey		1
			our lives			et			on this		ı
						Level II			topic		ı
									demonstr		ı
									ating the		1

S

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

									impact of social factors		
	Self reflectio n	Kno w		Realize the effect of perception on interperson al and community relationshi ps	Affectiv e	Receiv e Level I	Must know	Media and discussio n + Role Play followed by directed discussio n	SAQ	SAQ/ Viva	Integration with the concept of disposition –Mental specifically / individualiz ation
Hom UG- OM- 2.2.6	Holistic approac h	Kno ws	Gestalt perceptio n and its importan ce to Homoeop athy	Observe gestalt perception	psycho motor	Observ e/ imitate Level II	Must know	Small group activity + Role Play followed by directed	Presentat ion performa nce	MCQ	

Viola P J

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumantieen Vidvageeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				Illustrate its importance to Homoeopa thy in case taking	Cognitiv e	Unders tand and interpr et Level II	Desir able to know	discussio n Visual films Demonst ration in OPD/vide os	LAQ	Horizontal/ Vertical with Organon
HOM UG OM 2.2.7	informat ion Synthesi s	Kno ws	Applied aspects of Perceptio n	Understand the perceptual difficulties of Dyslexia Know the phenomen a of hallucinatio n	Cognitiv e	Unders tand and interpr et Level II	Must know	Caselets and visual graphics	SAQ/ Viva	Vertical integration Psychiatry



A Constituent Institute of Sumandeep Vidyapeetin Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

НОІ	√ Informat	Sho	Perceptio	Derives	Cognitiv	Unders	Must	Demonst	DOPS	SAQ /	Horizontal
UG	ion	WS	n in	rubrics and	е	tand	know	rate		Viva	integration
OM	manage	how	Repertory	remedies		Level II					Repertory
2.2.	ment		and	related to							and HMM
2.2.	9		Materia	perceptual							
			Medica								



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

				phenomen a							
Informa ion collection	t Intelligen ce and its measure ment	Kno ws	Conceptu al models of Intelligen ce	Define Intelligence	Cognitiv e	Recall level I	Must know	Lecture	MCQ	MCQ/ Viva	
Information Analysis and information Interpretation	t	Kno ws		Detail the different approaches to viewing Intelligence i. Multiple intellige nces (Gardner) ii. Triarchic theory (Sternbe rg) iii. Fluid and Crystalliz ed (Catell's)	Cognitiv	Unders tand and interpr et Level II	Nice to know	Lecture	SAQ	SAQ/ Viva	



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

				iv. PASS theory						
i	Information collectio	Kno ws	Measure ment of Intelligen ce	Define Intelligence Quotient (IQ)	Cognitiv e	Recall level I	Must know	Lecture	SAQ	SAQ/ Viva
i i i i i i i i i i i i i i i i i i i	Information Analysis and Interpret ation	Kno ws		Discuss the contribution of heredity and environment to intelligence	Cognitiv e	Unders tand and interpr et Level II	Must know	Lecture	SAQ	SAQ/ Viva
t	Informai ton Analysis	Kno ws		Discuss the pros and cons of measurem ent of IQ	Cognitiv e	Unders tand and interpr et Level II	Must know	Lecture	SAQ	SAQ/ Viva
	nformation	Kno ws		Enumerate the methods of assessing intelligence	Cognitiv e	Recall level I	Nice to Know	Lecture	MCQ	MCQ/ Viva

Vol.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informa ion collection	ce as a		Emotiona I intelligen ce and its uses	Define emotional intelligence	Cognitiv e	Recall level I	Must know	Lecture	MCQ	MCQ/ Viva	
Informa ion collection		Kno ws		Define the component s of Emotional intelligence	Cognitiv e	Recall level I	Must know	Lecture	MCQ	SAQ/ Viva	
System thinking and self awarend ss		Kno ws		Discuss the ways in which Emotional intelligence is useful to individuals and groups	Cognitiv e	Unders tand and interpr et Level II	Must know	Lecture and discussio n	LAQ Activity indicatin g the usefulnes s of Emotion al Intelligen ce in day to day activity / functioni ng	LAQ	

See Vo.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informat	Kno	Define	Cognitiv	Recall	Must	Lecture	SAQ	SAQ/	
ion	WS	creativity	е	level I	know			Viva	

VIOLET IN THE PROPERTY OF THE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

collectio n			Creativity and its								
Informat ion Systems thinking		Kno ws	growth	Illustrate the process of creativity	Cognitiv e	Unders tand and interpr et Level II	Must know	Lecture	Project or activity on any theme indicatin g the creativity		
Systems thinking		Kno ws		Discuss the ways in which creativity can be fostered	Cognitiv e	Unders tand	Must know	Lecture	SAQ	SAQ/ Viva	
Informat ion collectio n	Applied aspects of Intelligen ce	Kno ws	Extremes of intelligen ce	List the types of extreme intelligence on the Bell-shaped curve	Cognitiv e	Recall level I	Must know	Lecture	SAQ	SAQ/ Viva	

The state of the s

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informat	Kno	Discuss the	Cognitiv	Unders	Nice	Lecture	SAQ	SAQ/	
ion	ws	special	e	tand	to			Viva	
Amplysia		needs of		and	know				
Analysis		the persons		interpr					
		occupying							

POEF VIOLE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				the extremes of intelligence		et Level II					
Informat ion Analysis	Intelligen ce and Homoeo pathy	Kno ws	Represen tation of Intelligen ce in the repertory	Illustrate the place of Intelligence in repertory	Cognitiv e	Unders tand and interpr et Level II	Must know	Demonst ration	DOPS	MCQ	Repertory
Informat ion Synthesi s		Kno ws ? Sho ws	Represen tation of intelligen ce in Materia Medica	Illustrate the representat ion of intelligence in Materia Medica	Cognitiv e	Unders tand and interpr et Level II	Must know	Demonst ration	DOPS	SAQ/ Viva	Materia Medica

Se State Sta

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 2 Topic 4-Motivation, its types and its relevance for Homoeopath

Sr.No	Generic	Subject	Millers	Specific	Specific	Bloom's	Guilbert's	Must	TL	Forma	Summ	Integrat
10	Compet ency	area	Know/ Know how/ Show how/ Does	competen cy	Learning Objectives / Outcomes	domain	level	know / desirab le to know / nice to know	method / media	tive Assess ment	-ative Assess ment	ion - Horizon tal / Vertical / Spiral
Hom UG- OM- 2.10.	Informa tion collectio n	Motivati on, the types and its role in daily living	Knows	Describe motivatio n	Define motivation	Cognitive	Recall level I	Must know	Class room lecture	MCQ	LAQ/SA Q	
Hom UG- OM- 2.10.	Informa tion collectio n	J	Knows	Understan d the nature and types of motivatio	Enumerate the types of motivation	Cognitive	Recall level I	Must know	Class room lecture	MCQ	LAQ/SA Q	
Hom	Self		Knows	n	Recognize	Affective	Receive	Must	Audio-	SAQ	SAQ/Viv	

WO CONTRACTOR OF THE PARTY OF T

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

UG	reflectio	how	the types of	level I	know	visual	a	
OG	n		motivation			Disavesi		
OM			influencing			Discussi		
			our			on		

To the state of th

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

2.10.3					thinking and emotions							
Hom UG- OM- 2.10.	Informa tion Interpre tation	Use of Maslow's model of motivati on in our personal	Knows	Models of Motivatio n	Describe the Maslow's self- actualizatio n model	Cognitive	Understan d and interpret Level II	Must know	Small group discussi on	Assign ment	LAQ	
HOM UG OM 2.10.5	Self reflectio n and awaren ess	and professio nal lives	Knows how		Recognize the importance of the model in knowing human beings	Affective	Receive level I	Must know	Group discussi on with caselets	Checkl ist	SAQ/Viv a	
UG HOM 2.10.6	Informa tion Synthes is	Utility of Motivati on for a Homoeo path	Shows how	Reflection of motivatio n in Repertory and HMM	Derives rubrics and remedy images related to motivation	Cognitive	Understan d and interpret Level II	Must know	Demons trate	Checkl ist	MCQ	

P VIO A TO STATE OF THE PARTY O

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 2 Topic 5-Learning, its types and its relevance in daily functioning of Humans

	Generic	Subject	Miller	Specific	Specific	Bloom's	Guilbert's	Must	TL	Forma	Summ	Integrat
Sr.No	Compet	area	S	competency	Learning	domain	level	know /	method	tive	-ative	ion -
8	ency		Know	competency	Objectives /		10101	desirab	/ media	Assess		Horizon
	,		/		Outcomes			le to		ment	Assess	tal /
			Know					know / nice to			ment	Vertical / Spiral
			how/					know				/ Spirar
			Show									
			how/									
			Does									
Hom	Informa	Laarnina	Know	Define	Define	Cognitiv	Docall	Muct	Class	MCO	LAQ /	
Hom UG-	Informa tion	Learning and	Know	learning and	learning and	Cognitiv e	Recall level I	Must know	Class room	MCQ	SAQ	
OM-	collectio	adaptatio	3	its role in	adaptation		leveri	KIIOW	lecture		JAQ	
1.6.1	n	n		bringing	adaptation				1000010			
				about								
				adaptation to								
	Informa			change	Derive the	Cognitiv	Understan	Must	Caselets	Casele	Problem	
	tion				relationship	е	d and	know		ts		
	Synthes				between the		interpret					
	İS				two		Level II					



A Constituent Institute of Sumandeep Vidyapeetin Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Learning	Know	Forms	of	Explain th	e Cognitiv	Understan	Must	Class	Checkl	LAQ/SA	
UG-	tion	forms and	S	learning		three forms of	of e	d and	know	room	ist	Q	
OM-	collectio	their				learning vi	<u>.</u>	interpret		lecture			
1.6.2	n					Classical		Level II					
						conditioning,							

V/O res

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		implicatio n for us			Instrumental conditioning and observational learning							
Hom UG- OM- I.6.3	Holistic thinking		Does	Differentiate the forms or types of learning and their significance	Explain the significance of the above three forms in our daily lives		Understan d and interpret Level II	Must to know	Demons tration	Projec t	MCQ	
	Informa tion collectio n		Know	Determinants of learning and their significance	Enumerate the various factors which determine the quality of learning	Cognitiv e	Recall level I	Must know	Lecture	MCQ	MCQ	
	Proble m solving		Know how		Derive the ways in which these factors can be used for enhancing learning	Cognitiv e	Problem solving level II	Must know	Assignm ents	Casele ts	SAQ / Viva	

The state of the s

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Analytic	Know	Identify	the	Cognitiv	Und	erstan	Must	Assignm	SAQ	SAQ/Viv	
al	S	factors	which	e	d	and	know	ent		a	
		would	inhibit		inte	rpret					
		learning	and		Leve	el II					

Violes

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvaneeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

La Caraca		IV.		which would need to be attended to	Caratir	D II	Mari		McO	NACON!	
Informa tion collectio n	Assessmen t of learning	Know s	Know the methods of assessing learning	List the methods whereby learning is assessed	Cognitiv e	Recall level I	Must know	Lecture	MCQ	MCQ/Viv a	
Analytic al				Evaluate the respective value of the different methods to assess learning	Cognitiv e	Problem solving level III	Must know	Assignm ent	SAQ	SAQ/Viv a	
Informa tion Synthes is	Utility of Learning and adaptation for a Homoeopa th	s how	Reflection of learning and adaptation in Repertory and HMM	Derives rubrics and remedy images related to learning and adaptation	Cognitiv e	Understan d and interpret Level II	Must know	Demons trate	DOPS	MCQ	





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956 Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic 1-Evolution of Mind with Growth and Development: Normal developments since birth to maturity: physical and psychological

Sr.No	Generic Compet ency	Subject area	Millers Know/ Know how/Sho w how/Doe s	Specific competen cy	Specific Learning Objectives / Outcomes	Bloom's domain	Guilbert's level	Must know desirable to know nice to know		Forma tive Assess ment	Summ -ative Assess ment	Integrat ion - Horizon tal / Vertical / Spiral
	Informa tion collectio n and analysis	Concept and process of Human	Knows	Discuss areas of human Growth and	Define and distinguish between Growth and Development	Cognitiv e	Interpret	Must know	Lecture	SAQ	SAQ/Viv a	
Hom UG- OM- I.4.1	Informa tion collectio n	Develop m	Knows	Developm ent	List the three domains of development Physical, Cognitive and psychosocial development	Cognitiv e	Remembe r- level I	Must know	Class room Lecture	МСО	LAQ / SAQ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Knows	Distinguish	Cognitiv	Understan	Must	Small	Quiz	LAQ/SA	
UG-	tion		the	е	d and		group		Q	

3000

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

OM- 1.4.2	Analysis Analytic al	how		characteristic s of physical, cognitive and psychosocial development		interpret Level II	know	discussi on Charts / Models Audio- visual aids	True- false test items		
	Informa tion analysis Analyitc al	Knows how	Discuss determina nts of developme nt	Distinguish between the contribution of nature and nurture in development	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	
	informa tion collectio n and Interpre tation	Knows		Define the concept of development al milestones in childhood	Cognitiv e	Recall	Must know	Lecture	MCQ	МСО	



A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Develop	Knows	Discuss	Discuss	the	Cognitiv	Understa	n Must	Small	MCQ	MCQ	Horizon
UG-	tion	mental	how	the	theory	of	е	d an	know	group			tal
OM-	Organiz	stages of	how	theories of	psychos	exua		interpret	know	demons			integrat
1.4.3	Organiz	Psychose		cognitive	1			Level II		tration,			ion with
	ation	xual,		and	develop	men				peer			Anato
	Analytic	cognitive		psychosoc	t as prop	osed				group			my,
	al	and		ial	by Freud	t				activitie			physiol
		psychoso								S.			ogy
	u			101	Syricot					_			' '

70 t

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informa tion Analytic al	cial develop ment	Knows how	developm ent	Discuss theory cognitive develope t prop by Piage	men osed	Cognitiv e	Understan d and interpret Level II	Must know	Lecture with example s	LAQ	LAQ	
Informa tion Analytic al		Knows how		Discuss theory psychoso developo t of Erikson		Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	
Informa tion collectio n and Interpre tation and Analysis	Human Develop ment across the Life span	Knows how	Discuss the developm ent of the human being across the lifespan	Discuss different stages physical, emotiona cognitive developm of childho	nent	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	

Sec. Vol.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informa	Knows	Discuss	Cognitiv	Understan	Must	Lecture	LAQ	LAQ	
tion collectio n	Kilows	parental styles appropriate to help optimal growth in childhood	е	d and interpret	know	Lectore	Essay on most suitabl e	LAQ	
							parent		

A Company of the Comp

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Self reflectio n							ing style		
Informa tion collectio n and Interpre tation Analysis	Knows	Discuss the different stages of physical, psychosocial and cognitive development of adolescence	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	
Informa tion Self reflectio n	Knows how / Show how	Discuss the role of home, school and society on the development of the adolescent	Cognitiv e ?Affectiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	

10 to

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informa	Knows	Discuss	the	Cognitiv	Understan	Must	Lecture	LAQ	LAQ	
tion	how	different		е	d and	know				
Analysis		stages	of		interpret					
		physical,			Level II					
		psychosoc	ial							

Jorge ET

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				and cognitive development of adulthood							
Inform tion Analy		Knows how		Discuss the different stages of physical, psychosocial and cognitive development of old age and senescence	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	
Information Self reflect n a aware ess	nce of knowled ge of Growth and Develop ment for	Knows how	Discuss significanc e of growth and developm ent in homoeopa	Recognize the impact on knowledge of Growth and Developmen t in case taking	Affectiv e	Receive level I	Must know	Lecture	LAQ	LAQ	Hor. with Organo n
Inform tion Analy	path	Knows	- thy	Identify the significance of knowledge of Growth and Developmen	Psycho motor	Imitation level I	Must know	Lecture	LAQ	LAQ	Hor. with Reperto ry

NO CONTRACTOR OF THE PARTY OF T

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

			t in use of Repertory							
Infor tion orga atior Anal	niz 1	Knows	Locate the significance of knowledge of Growth and Developmen t in Homoeopat hic Materia Medica	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	LAQ	LAQ	Hor. with HMM

NO TO SERVICE STATE OF THE SER

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic 2- Development of Personality, types, Traits, Temperament

Sr.N o	Generic Compet ency	Subject area	Millers Know/ Know how/Sho w	Specific competen cy	Specific Learning Objectives, Outcomes	I	Bloom's domain	Guilbert's level	Must know / desirabl e to know / nice to	TL method / media	Forma tive Assess ment	Summ -ative Assess ment	Integrat ion - Horizon tal / Vertical / Spiral
			how/Doe s						know				
Hom UG- OM- I.9.1	Informati on collection	of Personali ty. Tempera ment	Knows	Discuss the concept of personalit y	Define concept personality	the of	Cognitiv e	Recall level I	Must know	Lecture with discussio n	MCQ	SAQ/Viv a	Concep t to be discuss with Organo n
	Informa tion collectio n , informa tion interpre tation and	and trait	Knows	Discuss the concept of Tempera ment and its evolution	Discuss to concept temperame and relation Body type	the of ent its to	Cognitiv e	Understan d and interpret Level II	Must know	Lecture	SAQ	SAQ	

Ster Volg

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Synthes is												
Hom UG- OM- I.9.4	Informa tion collectio n + Informa tion Interpre tation		Knows	Discuss the concept of traits and its utility	Describe scientific concept 'Traits' their important	of and	Cognitiv e	Understan d and interpret Level II	Must know	Lecture with case let discussi on	MCQ	SAQ/Viv a	Concep t to be discuss with Organo n
Hom UG- OM- I.9.5	Information collection interpretation and Analysis Synthesis	Theories of Personali ty and develop mental process	Knows	Discuss the Theories of Personalit y	Explain following theories personalit 1. Biologic 2. Behavior ic 3. Learnin 4. Human proposiby var psychots and implica	of cy cal curist ig istic ed rious logis their	Cognitiv e	Understan d and interpret Level II	Desirabl e to know	Lecture with case discussi on or suitable exampl e	MCQ Essay on each theory	SAQ/Viv a	

Manufacture of the state of the

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

				s to a physician							
Hom UG- OM- I.9.6	Informa tion Holistic approac h	Knows how	Discuss the developm ent of Personalit y and	Illustrate the process of personality development	Cognitiv e	Understan d and interpret Level II	Desirabl e to know	Case scenari o discussi on	MCQ	SAQ	
Hom UG- OM- I.9.7	Informa tion collectio n and Case Interpre tation of data	Knows	factors determini ng it	Enumerate the Factors determining the Personality	Cognitiv e	Recall level I	Desirabl e to know	Case scenari o discussi on	MCQ	SAQ/Viv a	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Knows	Assessme	Describe the	Cognitiv		Nice to	Case	MCQ	SAQ/Viv	
UG-	tion	how	nt of	techniques of	e	Understan	know	scenari		a	
OM-	Analysis		personalit	assessing		d and		0			
1.9.9	Allalysis		У	Personality		interpret		discussi			
	Synthes			1 ersonancy		Level II		on			
	is							011			
	15										

POEF VIOLE

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Personali	Knows	Implicatio	Discuss	the	Cognitiv		Must	Discussi	MCQ	LAQ	Hor
UG-	tion	ty and		ns of study	relevance	of	е	Understan	lengue	on with			with
OM-	collectio	Homoeo		of	concept	of		d and	know	case			Organ
1.9.1	n	pathy		personalit	Personalit	y to		interpret		scenari			on
0				y to	a			Level II		0			
				homoeopa	homoeop	ath							
				th									
Hom	Proble		Knows		Discuss	the	Cognitiv	Understan	Desirabl	Discussi	MCQ	LAQ	Hor
UG-	m				relevance	of	е	d and	e to	on with			with
OM-	Solving				studying			interpret	know	scenari			MM
1.9.1					Personalit	У		Level II		0			
1					from	the							
					perspectiv	e of							
					Materia								
					Medica								

See Vol.

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic 3-Bio-Psycho-Social development of Human Being

Sr.No	Generic Compet ency	Subject area	Millers Know/ Know how/Sho w how/Doe s	Specific competen cy	Specific Learning Objectives / Outcomes	Bloom's domain	Guilbert's level	Must know / desirable to know / nice to know	TL metho d / media	Forma tive Assess ment	Summ -ative Assess ment	Integrati on - Horizont al / Vertical / Spiral
Hom UG- OM- I.5.1	Informa tion	Concept of Bio- Psycho- Social model for	Knows	Describe concept of Bio- Psycho- Social developm	Define the Bio-Psycho- Social model	Cognitiv e	Recall level I	Must know	Lectur e	Ess	LAQ/ SAQ	Anatomy , Physiolo gy
	Informa tion Analysis Synthes is	holistic care	Knows	ent of Human Being	Illustrate how each of the constituent of the Biopsycho-social model gives a more comprehensive understandin	Cognitiv e	Understan d and interpret Level II	Must know	Lectur e	LAQ	LAQ	

Violes I

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

	Holistic	Knows	Implicatio	g of a human being Discuss the	Cognitiv	Understan	Must	Lectur	LAQ	LAQ	
	approac h System based thinking	how	ns of the Bio- psycho- social approach	significance of the Bio- psycho-social approach to a human being		d and interpret	know	e	Live		
	Synthes	Knows	Implicatio ns in homoeopa thic care	Discuss the similarity between homoeopathi c approach to a human being with Bio-psychosocial approach	Cognitiv e	Understan d and interpret Level II	Must know	Lectur e	LAQ	LAQ	Hor with Organon
Hom UG- OM- I.5.5	Informa tion Synthes is	Knows how	Discuss Socio cultural basis of Behavior	Defines the role of culture in shaping human behavior.	Cognitiv e	Recall level I	Must know	Small group discus sion	Chart prepar ation Assign ment	SAQ	

100

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic 4 Concept of Stress-Conflict: their genesis, types and effects on the mind and body

Sr.No	Generic Compet ency	Subject area	Millers Know/ Know how/Sho w	Specific competen cy	Specific Learning Objectives / Outcomes	Bloom's domain	Guilbert's level	Must know / desirabl e to know / nice to know	TL method / media	Forma tive Assess ment	Summ -ative Assess ment	Integrati on - Horizont al / Vertical / Spiral
Hom UG- OM- I.10. 1	Informa tion collectio n	Stress, Conflicts and Coping Mechani sms	Knows	Discuss the Concept of Stress and types of stress	Define Stress	Cognitiv e	Remembe r and Recall Level I	Must know	Present ation with case let	MCQ	LAQ	Observat ion in any departm ental OPD/IPD
Hom UG- OM- I.10. 2	Informa tion and analysis		Knows		Classify the types of stress	Cognitiv e	Understan d and interpret Level II	Must know	Present ation with case let	MCQ	LAQ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

tal

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Informa	Knows	Identify	the	Cognitiv	Understan	Must	Present	MCQ	SAQ/Viv	
UG-	tion	how	sources	of	е	d and	know	ation		a	
OM-			Stress								

Les Vo

Sumandeep Homoeopathic Medical College & Hospital

A Constitute of Samuel Level Vision and December 1 to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

l.10. 3							interpret Level II		with case let			
Hom UG- OM- I.10.	Organiz e the data	Knows how		Discuss effect Stresses Mind Body	the of on and	Cognitiv e	Understan d and interpret Level II	Desirabl e to know	Present ation with case let	MCQ	SAQ/Viv a	
Hom UG- OM- I.10.	Informa tion	Knows	Concept of Conflict and types	Define Conflict		Cognitiv e	Recall level I	Must know	Present ation with case let	МСО	SAQ/Viv a	Observat ion in any departm ental OPD/ IPD
Hom UG- OM- I.10. 6	Informa tion collectio n	Knows		State stages Conflict	the of	Cognitiv e	Recall Level I	Must know	Present ation with case let	MCQ	SAQ/Viv a	Observat ion in any departm ental OPD/ IPD



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Organiz	Knows	Enumerate	Cognitiv	Recall	Must	Present	MCQ	SAQ/Viv	Observat
UG-	e the	how	the types of	е	Levell	know	ation		a	ion in any
OM-	data		Conflict				with			departm
l.10.7							case let			

O.L.

Sumandeep Homoeopathic Medical College & Hospital





An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

											ental OPD/IPD
Hom UG- OM- I.10. 8	Analysis Synthes is	Know	Describe the relationshi p between stress and conflict	Discuss the relationship between Stress and Conflict	Cognitiv e	Understan d and interpret Level II	Desirabl e to know	Present ation with case let	MCQ	SAQ/Viv a	Observat ion in any departm ental OPD/ IPD
Hom UG- OM- I.10. 9	Informa tion	Know	Discuss the concept of Coping Mechanis ms and their use	Define Coping mechanism	Cognitiv e	Recall Level I	Must know	Present ation with case let	MCQ	SAQ/Viv a	Observat ion in any departm ental OPD/ IPD
Hom UG- OM- I.10. 10	Informa tion	Knows		Enumerate the types of Coping mechanisms	Cognitiv e	Recall Level I	Must know	Present ation with case let	MCQ	SAQ/Viv a	Observat ion in any departm ental OPD/ IPD

VIO 2

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Hom	Proble		Knows		Discuss	the	Cognitiv		Must	Present	MCQ	MCQ	Observat
UG-	m		how		utility	of	е	Understan	know	ation			ion in any
OM-	solving				Coping			d and		with			departm
l.10.					mechanis	m		interpret		case let			ental
1					while dea	ling		Level II					OPD/IPD
					with Stre	SS							
1													
	Holistic		Knows	Discuss	Evaluate	the	Cognitiv	Understan	Must	Lecture	LAQ	LAQ	
	approac		how	successful	role	of	е	d and	know	ماعنىي			
	h			resolution	learning	and		interpret		with			
	Cyctom			of conflict	adaptatio	n in		Level II		case			
	System based				ensuring					exampl			
					resolution	n of				е			
	thinking				stress								
	Synthet	Applicati	Shows	Exploring	Explore	the	Cognitiv	Problem	Must	Lecture	LAQ	LAQ	
	ic	on of	How	effects of	reflection	of	е	solving III	know				
		stress-		stress-	conflict	in							
		conflict		conflict in	Hom Ma	teria							
		in		Homoeop	Medica								
		Homoeo		athy									
		pathy		,									

100

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic- 5- Applied Psychology: Clinical, Education, Sports, Business and Industrial

Sr.No	Generic Compet ency	Subject area	Millers Know/ Know how/ Show how/ Does	Specific competen cy	Specific Learning Objectives / Outcomes	Bloom's domain	Guilbert's level	Must know / desirab le to know / nice to know	TL method / media	Forma tive Assess ment	Summ -ative Assess ment	Integrat ion - Horizon tal / Vertical / Spiral
Hom UG- OM- I.11.1	Informa tion Collecti on	Applied Psycholo gy	Knows	Understan d the applicati on of Psycholo gy in the different fields of Clinical, Educatio n, Sports,	Define the following terms in Applied Psychology viz Clinical, Business, Education, Sports, Industrial	Cognitiv e	Recall Level I	Must know	Discussi on on the utility of the subject in multiple human resource s areas	MCQ	SAQ	

Sole Viola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

Informa	Knows	Business,	Illustrate the	Cognitiv	Understan	Desirab	Library	SAQ	SAQ/Viv	
tion		Industrial	utility of	е	d and	le to	referenc		a	
manage			subject	2	interpret	know	es			
ment			Psychology in	Psycho-	Level II					
			various fields	motor						

To your training to the same of the same o

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Semester 3 Topic 6: Psychology and its importance in Homoeopathic practice for Holistic Management of the patient

Generic	Subject	Millers	Specific	Specific	Bloom's	Guilbert's	Must	TL	Forma	Summ	Integrat
Compet	area	Know/	competen	Learning Objectives /	domain	level	know / desirab	method / media	tive Assess	-ative	ion - Horizon
ency		how/ Show how/	cy	Outcomes			le to know / nice to know		ment	Assess ment	tal / Vertical / Spiral
System s thinking	Psycholo gy and Homoeo pathy for Holistic manage ment	Nows Knows	Summarizi ng the course of Psycholog y	Discuss the ways in which Psychology may contribute to the holistic manageme nt of the patient	Cognitive	Understan d and interpret Level II	Must know	Lecture and discussi on	LAQ	LAQ	



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Teaching-Learning Methods

- a. Classroom teaching
 - i. Lecture
 - ii. Demonstration
 - iii. Group discussion
 - iv. Problem based learning
- b. Practical
 - i. Psychological theories Models / Experiments / Any activity
 - ii. Facial recognition spotting
- c. Individual learning
 - i. Assignment
 - ii. Short project -e.g. searching MM or Repertory for representation of emotions, thoughts and behaviour

V Practical – Lab work – Field – Clinical Hospital work

- a. Journal club: a team of students to present the understanding of current development in psychological aspects of every day events
- b. Field work Some survey for identification of psychological disturbance in Common Man
- c. Clinical Hospital Work- Small project on psychometric tests.

VI No of Teaching Hours: Theory

Sr. No	Topic	No of lectures	Non-lectures
1.	Introduction to the study of Mind in Homoeopathy	3	-
2.	Psychological organization and the interrelationship of Thought (Cognition), Feelings (Affect) and Behaviour (Conation); Conscious and Unconscious elements	2	1

Sole P Viole

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Violvapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

		I	1
3.	Physiological basis of behaviour - the place of conditioned and unconditioned reflex	3	1
4.	Understanding Behavior and Functioning and expressions in Repertory and Materia Medica	4	2
5.	Understanding Emotion, its different definitions and expressions in Repertory and Materia Medica	5	3
6.	Understanding Intellect: Attention, memory and its function and expression in Repertory and Materia Medica	4	3
7.	Understanding Intellect: Perception and expressions in Repertory and Materia Medica	3	2
8.	Understanding Intellect: Thinking, intelligence and its measurement and expressions in Repertory and Materia Medica	4	2
9.	Motivation and their types with role in our lives	2	2
10.	Learning and its place in adaptation	4	2
11.	Growth and development of Mind and its expressions from Infancy to old age	4	2
12.	Structure of Personality, the types, their assessment, relationship to Temperament and representation in Materia Medica	4	2
13.	Conflicts: their genesis and effects on the mind and body	3	1
14.	Applied Psychology: Clinical, Education, Sports, Business, Industrial	2	-
15.	Psychology and its importance in Homoeopathic practice	2	-
	1/.2		ı



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Total	50	22

8. Assessment

8A- Number of papers and Mark Distribution

Sr.	Course Code	Papers	Theory	Practical	Viva Voce	Internal Assessment Practical	Grand Total
No.							
1	HomUG-OM-I	1	100	50	40	10	200

8B - Scheme of Assessment (formative and Summative)

Sr. No	Professional Course	1 st term (1-6 Months)	2 nd Term (7-12 Months)	3 rd Term (13-18	Months)
1	First Professional BHMS	First PA + 1 ST TT	2 nd PA+2 ND TT	3 rd PA	UE

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

8 C - Evaluation Methods for Periodical Assessment

Sr. No	Evaluation Dimensions



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

6 Second Cycle

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Practical/Clinical Performance



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

2	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3	Open Book Test (Problem Based)
4	Reflective writing
5	Class Presentations; Work Book Maintenance
6	Problem Based Assignment
8	Co-curricular Activities, (Social Work, Public Awareness, Surveillance/ Prophylaxis Activities, Sports or Other Activities which may be decided by the Department).
9	Small Project

8D - Scheme of Assessment (Formative)

Sr. No	Professional Course	1 st term (1-6 Mon	ths)	2 nd Term (7-12 Mo	3 rd Term (13-18 Months)	
1	First Professional BHMS	1 st PA	1 ST TT	2 nd PA	2 ND TT	3 rd PA
		10 Marks Practical/Viva	50 Marks Practical/ Viva	10Marks Practical/Viva	50 Marks Practical/ Viva	10Marks Practical/Viva

For Internal assessment, Only Practical/Viva marks will be considered. Theory marks will not be counted)

8E - Method of Calculation of Internal Assessment Marks for Final University Examination:



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

PA ₁	PA ₂	PA ₃	Periodical	TT1	TT ₂	Terminal	Final
Practical/Viva	Practical/Viva	Practical/Viva	Assessment	Practical/Viva	Practical/Viva	Test	Internal
(10 Marks)		-	Average	(50 Marks)		Average	Assessment
(10 mains)	(10 Marks)	(10 Marks)	PA1+PA2+PA3/3	(Je manke)	(50 Marks)	TT1+	Marks
						TT2/	
						100*10	
	В	С	D		F	G	D+G/2
Α			, and the second	E			

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

8 F - Paper Layout

Summative assessment:

Theory- 100 marks

Section –I-50 marks-Organon

MCQ	5 marks	10min
SAQ	25 marks	50 min
LAQ	20 marks	30 min

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Section -II-50 marks- Psychology

O TRO LETH

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeetin Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

MCQ	5 marks	10min
SAQ	25 marks	50 min
LAQ	20 marks	30 min







At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8 G – I – Distribution of Theory Exam - Organon

Sr. No.	Paper			D Type of ("Yes" ca "No" sh	d.	
	Α	В	С	MCQ	SAQ	LAQ
	List of Topics	Terms	Marks	(1mark)	(5 Marks)	(10 Marks)
1	Introductory Topics	I	Refer Next Table	Yes	Yes	No
2	Logic	I		No	Yes	No
3	\$1-27&105-145 of Organon of medicine, \$105 to 145	II & III		No	Yes	Yes
4	The Physician – Purpose of Existence, Qualities, Duties, Knowledge	III		Yes	Yes	Yes
5	Vital Force – Dynamisation – Homoeopathic Cure – Natures Law of Cure & Implications – drug proving	III		Yes	Yes	Yes



A Constituent Institute of Sumandeen Vidvaneeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Theme*	Topic	Term	Marks	MCQ's	SAQ's	LAQ's
Α	Introductory Topics	I	10	Yes	Yes	No
В	Logic	I	05	No	Yes	No
С	§1-27&105-145 of Organon of medicine, §105 to 145	II & III	25	No	Yes	Yes
D	The Physician – Purpose of Existence, Qualities, Duties, Knowledge	III	10	Yes	Yes	Yes

Theme table: -Psychology

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
А	Introduction to psychology	I	05	NO	Yes	No
В	Psychological organization of Mind –Structural and Functional	I	10	Yes	Yes	Yes
С	Understanding Emotion/thinking/ Behaviour	I	10	Yes	Yes	Yes
D	Motivation and their types with role in our lives	I	05	Yes	Yes	Yes
E	Growth and development	II	10	Yes	Yes	Yes
F	Personality development and stress management	III	05	NO	yes	no
G	Applied Psychology	III	05	No	Yes	no

O.P. SETH

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeeu Vicivapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8 H Question paper Blue print :

Sections I: Organon – 50 Marks

Α	В	Question Paper Format
Question Serial Number	Type of Question	(Refer table 4FII theme table for themes)
Q1	Multiple Choice Questions (MCQ)	Theme A
	5 Questions	Theme A
	1 mark each	Theme A
	All Compulsory	Theme A
	Must Know part – 3 MCQ	Theme A
	Desirable to know – 2 MCQ	
	Nice to know – NIL	
Q ₂	Short Answer Questions (SAQ)	Theme A
	5 Questions	Theme B
	5 Marks Each	Theme C
	All Compulsory	Theme C
	Must Know part – 5 SAQ	Theme C
	Desirable to Know – NIL	
	Nice To Know - NIL	
Q ₃	Long Answer Questions (LAQ)	Theme C
	2 Questions	Theme D
	10 Marks Each	
	All Compulsory	
	All questions on must know	
	Desirable to Know – NIL	
	Nice To Know - NIL	

0 to 0

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Section-II- Psychology -50 marks

Question Serial	Type of Question	Question Paper Format
Number		(Refer table 4 F II Theme table for themes)
Q1	All compulsory	Theme B +C+E+F+G
	Multiple choice Questions (MCQ) 5 Questions -1 mark each	
	Must know – 3MCQ	
	Desirable to know-1 MCQ	
	Nice to know -1 MCQ	
Q2	Short answer Questions (SAQ) 5 Questions 5 Marks Each	Theme A+B+C+D+E+F+G
	All compulsory	
	Must know part: 3 SAQ	
	Desirable to know: 1 SAQ	
	Nice to know: 1 SAQ	
Q ₃	Long answer Questions (LAQ) 2 Questions 10 marks each	Theme B+C+ E+F+G
	All compulsory	
	Must know part: 2 LAQ	
	152	•



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

8 I - Distribution of Practical Exam

Practical -100

Practical Organon: 50 marks

Practical	25 marks
Viva voce	20 marks
Internal assessment	5 marks

Practical Psychology: 50 marks

Practical	25 marks
Viva voce	20 marks
Internal assessment	5 marks

9. References

Text book/s

- 1. Hahnemann S. Organon of medicine. 6ed
- 2. Sarkar. B. K. Hahnemann's organon of medicine
- 3. Roberts H. A. The principles and Art of cure by homoeopathy
- 4. Kent J. T. Lecture's on homoeopathic philosophy

See Volume

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

5. M. L. Dhawale. Principles & Practice of Homoeopathy



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

- 6. Hughes Richard The Principles and Practice Of Homoeopathy
- 7. Close Stuart: The genius of homoeopathy
- 8. Allen J Henry: The Chronic Miasm With Repertory
- 9. Banerjee P N.: Chronic diseases- Its cause and cure

II. Reference books

- 1. Arya M.P (2018): A study of Hahnemann's Organon of medicine
- 2. Singh Mahindra: Pioneers Of Homoeopathy
- 3. Vithoulkas George (2002): Science of Homoeopathy

References/ Resources: Standard textbook: for Psychology

- 1. Shelley E Tylor. 10th edition (2018) Health psychology
- 2. Shashi Jain 4th edition (2014) Introduction to psychology
- 3. Psychology textbook for class XI.7th edition National Council for Educational Research and training
- 4. Psychology textbook for class XII 7th edition National Council for Educational Research and training
- 5. Morgan Clifford Thomas 7th edition (2017) Introduction to Psychology
- 6. Alder (2009) Psychology and Sociology applied to medicine
- 7. Chavan (2013), Community Mental Health in India
- 8. Munn (2010) Norman Normal Psychology
- 9. Baron Misra (2016) Psychology
- 10. Susan (2011) Ayers Psychology for Medicine
- 11. Diana Papilia (2001) Developmental psychology
- 12. Atkinsons & Hilgard (2015) Introduction to Psychology

Violes I

Sumandeep Homoeopathic Medical College & Hospital

A Constituent Institute of Sumandeep Vidyapeeth Deemed to be Universit



An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle
Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

10. LIST OF CONTRIBUTORS:

ORGANON AND PHILOSOPHY

Dr Ajay Dahad

Principal, Professor/Head, Organon of Medicine & Homoeopathic Philosophy

Smt. K. B. Abad Homoeopathic Medical College, Chandwad-423101 Dist. Nashik (MS)

Dr Alpesh Arunbhai Shah

Principal, Professor of organon of medicine Pioneer homoeopathic medical college and hospital, Vadodara

Dr. Neeraj Gupta

Professor, Nehru Homoeopathic Medical College, Delhi

Dr. Mihir Parikh

Professor, Smt. Malini Kishore Sanghvi Homoeopathic Medical College, Karjan

Dr. Nimish Mehta

Reader, Smt. Chandaben Mohanbhai Patel Homeopathic Medical College, Mumbai

Dr. K. Shivprasad

See Vola

Sumandeep Homoeopathic Medical College & Hospital

A Constituent institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018

At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Principal, Yenepoya homoeopathic medical college, Mangalore



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

FUNDAMENTALS OF PSYCHOLOGY

Dr Sunita Nikumbh,

Dr M L Dhawale Memorial Homoeopathic Institute Palghar

Dr Jayashree Janagam

Asst. Professor, Dept. of Psychiatry, National Homoeopathy Research Institute in Mental Health, Kottayam,

Dr. Mahendra Gaushal

Principal, Sonajirao Kshirsagar Homoeopathic Medical College, Beed

Dr. Girish Navada

Professor, Father Muller Homoeopathic Medical College, Mangalore



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956

Accredited by NAAC with a CGPA of 3.61 on Four Point Scale at 'A++' Grade in Second Cycle

Category - I Deemed to be University under UGC Regulations 2018



At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

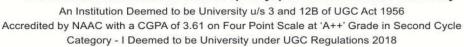
COMPETENCY BASED DYNAMIC CURRICULUM FOR FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Yoga for Health Promotion)



A Constituent Institute of Sumandeep Vidyapeeth Deemed to be University





At and Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin Code: 391760. Phone: +91 2668 245262 / 64 / 66, Ext No:3101 E-mail Id: principalshmch@sumandeepvidyapeethdu.edu.in, info@sumandeepvidyapeethdu.edu.in | Website: www.sumandeepvidyapeethdu.edu.in

Subject Code: HomUG-Yoga I

Subject: Yoga for Health Promotion

The syllabus of Yoga for the 1st BHMS students should include the basic concept of Yoga and its philosophy, with a clear idea of the different section of asana, pranayama, kriya and meditation. Total 30 hours of class will include practical training. The students will be trained in understanding the relationship between Yoga and Homoeopathy in a wholistic approach, and the point of application of yoga in part of treatment.

The topic and respective allotted hours are as follows-

Sr.n o.1	TOPIC	CLASS
1.	Yoga definition, concept, types, benefits, and origin.	
2.	History and patanjali, yoga philosophy and development of yoga.	
3.	Astanga, yoga, hathayoga.	
4.	Asana-types, examples, benefits.	
5	Corelation of vital force and prana.	Hours 1
6	Meditation-types, methods, benefits.	Hours 1
7	Kriya-types, methods, benefits.	Hours 1
8	Relationship of yoga and homoeopathy on wholistic plane.	
9	Application of yoga in terms of hahnemann's accessory circumtanses.	
10	Pranayanam, types, benefits.	
11	Practical learning about asanas (postures)-pawanmuktasna, backstreching, sunsalutation, classical sequences.	Hours 5
12	Practical learning about Breathing, pranyama including abdominal, thoracic, clavicular, hasthamudra, vilom, lung sensitising.	Hours 5
13	Practice of relaxation, tense and relax, short yoganidra, extended, savasana, yoganidra, sankalpa.	
14	Meditation practice, sitting posture, kaya sthairam, omchanting, trataka.	Hours 5