

Subject name : Pathology and Microbiology

Subject code: HomUG-Path-M

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1. Preamble

Pathology and Microbiology provide comprehensive knowledge of the pathologic basis of disease, to enable a complete understanding of the reaction of man to different morbid factors causing disease -its natural course, clinical manifestations, complications and sequel.

The students must be able to discriminate symptoms of the patient & disease satisfying the Hahnemannian requirements of physicians as mentioned in aphorism 3 of Organon of Medicine, make them competent in diagnosis and to substantiate miasmatic perspective with pathology for an accurate homoeopathic prescription.

Knowledge also helps in deciding the scope, limitation and prognosis of a case through the understanding of susceptibility. Immune mediated illnesses are becoming important areas where homoeopathic interventions can play a significant part in alleviating suffering and in bringing about a cure. The teaching should be aligned and integrated vertically in organ systems recognizing deviations from normal structure and function and clinically correlated to provide an overall understanding of the aetiology, mechanisms, laboratory diagnosis and management of diseases and horizontally with Homoeopathic Philosophy, Homoeopathic Materia Medica and Repertory to understand the Homeopathic concept of Disease and its management. Pathology will need alignments with Anatomy and Physiology on one side and clinical subjects on the other side with the foundation of homoeopathic subjects.

2. Course outcomes

At the end of the II BHMS course the students will be able to:

1. Recognize the importance of study of Pathology and Microbiology in Homoeopathic system of medicine
2. Understand the morphological changes in cell structure in disease and recognize the mechanism of the etiological factors in the causation of such changes
3. Integrate the study of Pathology and Microbiology with Homoeopathic philosophy, Materia Medica, and Repertory.
4. Understand classification of diseases as per Master Hahnemann.
5. Understand common and important diseases based on their evolution, aetio-pathogenesis, pathology, progress and prognosis.
6. Develop skill in the identification of pathological features specifically histo-pathological features, and gross pathological specimens.
7. Able to interpret laboratory reports for diagnosis and treatment purpose.
8. Develop a positive attitude towards the role of Pathology and Microbiology in Homoeopathic system

3. Course content and its term-wise distribution

3.1 Contents for Term I

Theory	
Sr. No.	Topic
1.	Introduction to Pathology
2.	General Pathology
3.	Introduction to Microbiology
4.	Sterilisation and Disinfection
5.	Culture medias and methods
6.	Infection and Disease
7.	Human Microbiome
8.	Gram positive bacterias
9.	Introduction to Virology
10.	Introduction to Parasitology
11.	Protozoans
Non –lecture- Practical/Demonstrative	
1.	Demonstration of Instruments
2.	Demonstration of Methods of sterilisation

3.	Demonstration of culture medias
4.	Estimation of haemoglobin
5.	Total count of Red Blood Cells
6.	Total count of White Blood Cells
7.	Bleeding time and clotting time
8.	Blood grouping.
9.	Gram staining
10.	Demonstration of histopathological slides
11.	Demonstration of Pathological specimen/models

3.2 Contents for Term II

Theory	
Sr. No.	Topic
1.	Systemic Pathology
2.	Gram negative bacterias
3.	Acid fast bacterias
4.	Spirochaetes
5.	Virology-DNA,RNA virus

6.	Parasitology –Helminths
7.	Mycology
8.	Diagnostic procedures in Microbiology
Non –lecture- Practical/Demonstrative	
1.	Staining of thin and thick films.
2.	Differential count.
3.	Erythrocyte sedimentation rate-demonstration
4.	Urine examination-physical,chemical and microscopical examination.
5.	Examination of Faeces- demonstration
6.	Hanging drop preparation.- demonstration
7.	Acid fast staining –demonstration
8.	Interpretation of laboratory reports (serological tests, LFT, RFT, TFT etc) and its clinico pathological correlation
9.	Demonstration of common pathological specimens/models from each system
10.	Demonstration of common Pathological slides from each system

4. Teaching hours

4.1 Gross division of teaching hours

Pathology & Microbiology		
Year	Teaching hours- Lectures	Teaching hours- Non-lectures
II BHMS	200	80

4.2 Teaching hours theory

Sr. No	Topic	Hours
	Paper I	
1.	Introduction	3
	General Pathology	
1.	Cell Injury and cellular adaptation	10
2.	Inflammation and repair	10
3.	Neoplasia	10
4.	Immunopathology	8
5.	Haemodynamic disorders	10
6.	Environmental and Nutritional diseases	2

	Systemic Pathology	
1.	Diseases of the Haematopoietic system, bone marrow and blood	9
2.	Diseases of the Respiratory system.	5
3.	Diseases of the the oral cavity,salivary glands and gastro intestinal tract	6
4.	Diseases of liver, gall bladder, and biliary ducts	4
5.	Diseases of the Pancreas	1
6.	Diseases of blood vessels and lymphatics	2
7.	Diseases of Cardiovascular system	5
8.	Diseases of kidney and lower urinary tract	6
9.	Diseases of male reproductive system and prostate	1
10.	Diseases of the female genitalia and breast	4
11.	Diseases of the skin and soft tissue	1
12.	Diseases of the musculo-skeletal system.	2
13.	Diseases of Endocrine glands -thyroid	2
14.	Diseases of nervous system	1
	Total	102

	Paper II	
	Microbiology and Parasitology	
1.	General introduction, Bacterial structure, growth and metabolism & genetics	3
2.	Identification and cultivation of bacteria(staining, culture medias, methods)	3
3.	Sterilization and disinfection	2
4.	Infection and disease	2
5.	Gram positive cocci	5
6.	Gram negative cocci	2
7.	Gram positive aerobic bacilli	2
8.	Gram positive anaerobic bacilli	3
9.	Gram negative bacilli	9
10.	Acid Fast Bacterias	4
11.	Spirochaetes	3
12.	Fungi- general characters- cutaneous, systemic mycosis, opportunistic	3
13.	Introduction to parasitology	2
14.	Protozoans	9
15.	Helminths –cestodes, trematodes and nematodes	14
16.	Virology-introduction &,Bacteriophages	2
17.	DNA virus	11

18.	RNA viruses	12
19.	Emerging and re-emerging diseases	2
20.	Human Microbiome- homoeopathic concept	3
21.	Diagnostic procedures in Microbiology	2
	Total	98

4.3 Teaching hours Non-lecture

Sl. No.	Practicals	60 hrs
1.	Demonstration of common and latest equipments used in pathology and microbiology laboratory	4
2.	Estimation of haemoglobin (by acidometer)	2
3.	Total count of Red Blood Cells	2
4.	Total count of White Blood Cells,	2
5.	Bleeding time and Clotting time.	2
6.	Blood grouping.	2
7.	Staining of thin and thick films- demonstration	2
8.	Differential count of WBC	2
9.	Erythrocyte sedimentation rate -demonstration	2
10.	Urine examination physical, chemical and microscopical examination.	4
11.	Examination of Faeces- demonstration of physical, chemical (occult blood)and microscopical for ova and protozoa.	2
12.	Demonstration of Methods of sterilisation	2

13.	Common culture medias- demonstration	1
14.	Gram staining	2
15.	Acid fast staining – demonstration	2
16.	Hanging drop preparation.- demonstration	2
17.	Interpretation of laboratory reports (serological tests, LFT, RFT, TFT etc) and its clinico pathological correlation.	5
18.	Demonstration of common pathological specimens/models	10
19.	Demonstration of common histopathological slides	10
	Demonstrative Activities	20
1.	Seminar/tutorials/ Symposium	8
2.	PBL/CBL	6
3.	Group discussion	6

5. Content mapping (competencies tables)

5.1. Introduction to Pathology

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.1.1	KS	K	Basic definitions	Define the terms “Pathology”, “Pathophysiology”, “Health”, “Disease”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M.1.2	KS	K	Branches of Pathology	State the branches of Pathology	C1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M.1.3	KS	K	Contributions of important scientists to Pathology	List the contribution of important scientists to Pathology	C1	NK	Lecture Slide presentation	Viva Voce MCQ	NA	
HomU G-Path M.1.4	KS	K	Common terms for study of diseases	Enumerate the common terms for study of diseases	C1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M.1.5	KS	K	Definition of health as per Homoeopathic philosophy	Define Health according to Homoeopathic concept – Aphorism -9	C1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ	Organon of Medicine

HomU G-Path M.1.6	KS	K	Definition of disease as per Homoeopathic philosophy	Define Disease according to Homoeopathic concept Aphorism -11	C1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ	Organon of Medicine
HomU G-Path M.1.7	KS	K	Homoeopathic concept of evolution of disease and cure	Describe the Homoeopathic concept of evolution of disease and cure	C1	MK	Lecture Slide presentation	Viva Voce SAQ	Viva Voce SAQ	Organon of Medicine

5.2. Cell injury and cellular adaptation

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomU G-Path M 2.1	KS	K	Definition of Cell injury	Define the term “Cell injury”	C 1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M 2.2	KS	K	Etiology of cell injury	Describe the causes of cell injury	C 1	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ	
HomU G-Path M 2.3	KS	KH	Cellular response to injurious stimuli	Describe the types of cellular response to injurious stimuli and stress.	C 2	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce SAQ MCQ	

HomU G-Path M 2.4	KS	K	Cellular adaptation	Define the term “cellular adaptation”	C 1	MK	Lecture	Viva Voce SAQ	Viva Voce SAQ LAQ	
HomU G-Path M 2.5	KS	K		Discuss the various types of cellular adaptation with examples	C 1	MK	Lecture Slide presentation	Viva Voce MCQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.6	KS	K	Atrophy	Define the term “atrophy”	C 1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.7	KS	KH		Explain the etiopathogenesis atrophy with examples	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.8	KS	KH		Describe the morphologic features of atrophied cell	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.9	KS	K	Hyperplasia	Define the term “Hyperplasia”	C 1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ	

HomU G-Path M 2.10	KS	KH		Describe types of hyperplasia with examples	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.11	KS	KH		Discuss the morphologic features of hyperplasia	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.12	KS	K	Hypertrophy	Define the term hypertrophy	C 1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.13	KS	KH		Describe the types of hypertrophy with examples.	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.14	KS	KH		Describe the morphologic features of hypertrophy	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.15	KS	KH	Differences between Hypertrophy and Hyperplasia	Enumerate differences between Hypertrophy and Hyperplasia	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	

HomU G-Path M 2.16	KS	K	Metaplasia	Define the term “Metaplasia”	C 1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.17	KS	KH		Describe the types of metaplasia with examples.	C 2	MK	Lecture Slide present ation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.18	KS	K	Dysplasia	Define the term “Dysplasia”	C 1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.19	KS	KH		Explain the cytological changes in Dysplasia	C 2	MK	Lecture Slide present ation	Viva Voce MCQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.20	KS	KH	Biochemical and ultra structural changes in reversible cell injury	Describe the sequential biochemical and ultrastructural changes in reversible cell injury due to Ischaemia and hypoxia	C 2	MK	Lecture Slide present ation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M 2.21	KS	KH	Biochemical and ultrastructural changes in Irreversible cell injury	Describe the sequential biochemical and ultrastructural changes in irreversible cell injury due to Ischaemia and hypoxia	C 2	MK	Lecture Slide present ation	Viva Voce MCQ SAQ	Viva Voce SAQ MCQ	

HomU G-Path M 2.22	KS	KH	Pathogenesis of cell injury	Describe the pathogenesis of Free Radical-mediated cell injury	C 2	MK	Lecture Slide present ation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ	
HomU G-Path M 2.23	KS	K	Morphology of Reversible cell injury	Enumerate the common morphologic forms of reversible cell injury	C1	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.24	KS	K	Hydropic change	Define the term “Hydropic change”	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.25	KS	KH	Hydropic change	Describe the etiopathogenesis of Hydropic change	C 2	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.26	KS	KH		Describe morphology of hydropic change with an example	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.27	KS	K	Fatty change	Define the term “Fatty change”	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M 2.28	KS	KH		Describe the etiopathogenesis of Fatty change	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.29	KS	KH		Describe morphology of Fatty change in various organs	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.30	KS	KH	Types of mucoid change with examples	Describe the types of mucoid change with examples	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	
HomU G-Path M 2.31	KS	KH	Types of Hyaline change with examples	Describe the types of hyaline change with examples	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ	
HomU G-Path M 2.32	KS	K	Morphological forms of Irreversible cell injury	List the Morphological forms of Irreversible cell injury	C 1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M 2.33	KS	K	Necrosis	Define the term “Necrosis”	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M 2.34	KS	K		Describe the types of Necrosis with examples	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.3 5	KS	K	Coagulative Necrosis	Describe the etiopathogenesis of Coagulative necrosis	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.3 6	KS	KH		Describe the morphological features of Coagulative necrosis in affected organs	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.3 7	KS	KH	Liquefactive necrosis	Describe the etiopathogenesis of liquefactive necrosis	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.3 8	KS	KH		Describe the morphological features of liquefactive necrosis in affected organs	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.39	KS	KH	Differences between coagulative necrosis and liquefactive necrosis	Enumerate differences between coagulative necrosis and liquefactive necrosis	C 2	MK	Lecture Slide presentation	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ	

HomU G-Path M 2.40	KS	KH	Caseous necrosis	Describe the etiopathogenesis caseous necrosis	C 2	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.41	KS	KH		Describe themorphological features of caseous necrosis inaffected organs	C 2	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.42	KS	KH	Fat necrosis	Describe the etiopathogenesis, morphological features of fat necrosis	C2	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.43	KS	KH	Fibrinod necrosis	Describe the etiopathogenesis, microscopic features of fibrinod necrosis	C2	MK	Lectur e Slide present ation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.4 4	KS	K	Gangrene	Define the term “Gangrene”	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
HomU G-Path M 2.4 5	KS	K		State the types of gangrene	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery

HomU G-Path M 2.4 6	KS	KH	Dry gangrene	Explain the etiopathogenesis morphological features of dry gangrene with examples	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
HomU G-Path M 2.4 7	KS	KH	Wet gangrene	Describe the etiopathogenesis morphological features of wet gangrene with examples	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
HomU G-Path M 2.4 8	KS	KH	Differences between dry gangrene and wet gangrene	Enumerate the differences between dry gangrene and wet gangrene	C 2	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ	
HomU G-Path M 2.49	KS	KH	Etiopathology of Gas gangrene	Explain the etiopathogenesis and morphological features of Gas gangrene	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M 2.50	KS	K	Pathological calcification	Define the term “Pathological calcification”	C 1	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.51	KS	KH		Enumerate the types of pathological calcification	C 1	MK	Lecture Slide presentation	MCQ Viva Voce	MCQ Viva Voce	

HomU G-Path M 2.52	KS	KH		Describe the etiopathogenesis of Dystrophic calcification with examples	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.53	KS	KH		Describe the etiopathogenesis of Metastatic calcification with examples	C 2	MK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.54	KS	KH		Enumerate the differences between Dystrophic calcification and Metastatic calcification	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.55	KS	K	Apoptosis	Define the term “Apoptosis”	C 1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.56	KS	KH		Describe the role of apoptosis in pathologic processes with examples	C 2	DK	Lecture Slide presentation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M 2.57	KS	K	Intracellular accumulation	Define the term “Intracellular accumulations”	C 1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	

HomU G-Path M 2.58	KS	KH		Enumerate the types of abnormal intracellular accumulations with examples	C 2	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M 2.59	KS	K	Definition of Xanthomas, “Russell bodies”, “Mallory body”, “Brown atrophy”, “Heart failure cells”	Define the terms “Xanthomas “Russell bodies”, “Mallory body”, “Brown atrophy”, “Heart failure cells”	C 1	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	

5.3. Inflammation and repair

Sl.No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.3.1	KS	K	Inflammation	Define the term “Inflammation”	C 1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology
HomU G-Path M.3.2	KS	K	Causes of inflammation	State the Causes of inflammation	C 1	MK	Lecture	Viva Voce SAQ	Viva Voce SAQ	
HomU G-Path M.3.3	KS	K	Types of inflammation	State the types of Inflammation	C 1	MK	Lecture	Viva Voce MCQ	SAQ Viva Voce	

KS	K	Cardinal signs of inflammation	State the cardinal signs of inflammation	C 1	MK	Lecture	VivaVoce MCQ	SAQ Viva Voce MCQ	
KS	K	Definition of Acute inflammation”	Define the term “Acute inflammation”	C 1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
KS	KH	Vascular events of the acute inflammation	Describe the mechanism of vascular events in acute inflammatory response	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
KS	KH	Cellular phase of acute inflammation	Describe the steps of cellular phase of acute inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
KS	KH	Process of Phagocytosis	Describe the three processes of Phagocytosis in cellular phase of acute inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
KS	K	Chemical mediators of inflammation	List the Chemical mediators of inflammation	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
KS	KH	Role of cell derived Chemical mediators	State the various sources and functions of cell derived chemical mediators of inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M.3.11	KS	KH	Role of plasma derived Chemical mediators	State the various sources and functions of Plasma derived chemical mediators of inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.3.12	KS	KH	Inflammatory cells	Describe the functions of cells participating in acute and chronic inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.13	KS	KH	Giant cells	Describe the three types of macrophages derived giant cells	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.14	KS	K	Morphologic Patterns of Acute Inflammation	State the Morphologic Patterns of Acute Inflammation	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.15	KS	KH	Classification of inflammatory lesion	Describe the classification of inflammatory lesion based on duration, type of exudates, and anatomic location affected in acute inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	
HomU G-Path M.3.16	KS	KH	Systemic effects of inflammation	Describe the systemic effects of acute inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	

HomU G-Path M.3.17	KS	KH	Outcomes of Acute Inflammation	Describe the end result of Acute Inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	
HomU G-Path M.3.18	KS	K	Chronic inflammation	Define the term "chronic inflammation"	CI	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.19	KS	K	Types of chronic inflammation	Mention the types of chronic inflammation	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.3.20	KS	KH	Morphologic Features of chronic inflammation	Describe the general features of chronic inflammation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.21	KS	KH	Granulomatous inflammation	Describe chronic non-specific inflammation with examples	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G PathM. 3.22	KS	KH	Granuloma	Describe the mechanism of evolution of a granuloma	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	

Hom UG Path M 3.23	KS	KH		Describe the morphology of granuloma	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M 3.24	KS	K	Examples of granulomatous inflammation	State common examples of granulomatous inflammation	C1	MK	lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M 3.25	KS	KH	Systemic effects of chronic inflammation	State the systemic effects of chronic inflammation	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	
HomU G-Path M.3.26	KS	K	Definition of Healing	Define the term “Healing”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.3.27	KS	KH	Repair and regeneration	Describe the processes involved in repair and regeneration	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.3.28	KS	KH	Wound healing by primary intention	Describe Wound healing by primary intention	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery

HomU G-Path M.3.29	KS	KH	Wound healing by secondary intention	Describe Wound healing by secondary intention	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
HomU G-Path M.3.30	KS	KH	Complication s in healing of skin wounds	Describe the complications in healing of skin wounds	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Surgery
HomU G-Path M.3.31	KS	K	Wound healing	Discuss difference in wound healing by primary and secondary intention	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.3.32	KS	K	Factors modifying the healing process	Explain the process of Fracture Healing	CI	NK	Lecture	Viva Voce	NA	
HomU G-Path M.3.33	KS	KH	Homoeopathi c aspect in inflammation	Correlate the events of inflammation and outcome of various types of inflammation with miasm and representation in repertory and different MateriaMedica.	C 2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	OM, MM, Repertory

5.4. Haemodynamic disorders

Sl. No.	Domains of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.4.1	KS	K	Definition of Oedema.	Define the term “Oedema”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology
HomU G-Path M.4.2	KS	KH	Types of Oedema.	Describe the pathogenesis of oedema	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.4.3	KS	KH	Transudate and exudate	Enumerate the differences between transudate and exudate	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.4.4	KS	KH	Etiopathogenesis of Oedema	Describe the etiopathogenesis of various types of oedema with its clinical correlation	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.4.5	KS	K	Definition of Hyperaemia	Define the term “Active Hyperemia”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	

HomU G-Path M.4.6	KS	K	Definition of Venous congestion	Define the term “Venous congestion” or “Passive hyperaemia”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M.4.7	KS	KH	Chronic venous congestion	Describe the mechanisms involved in chronic venous congestion of different organs	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.4.8	KS	KH		Explain morphology of Chronic Venous Congestion in Lung	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.4.9	KS	K	Definitions	Define the terms “Haemorrhage”, “Haematoma”, “Ecchymosis”, “Purpuras”, “Petechiae”,	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Forensic medicine
HomU G-Path M.4.10	KS	K	Shock	Define the term “Shock”	C1	MK	Lecture	Viva Voce MCQS AQ	Viva Voce MCQ SAQ LAQ	
Hom UG- Path M 4.11	KS	K		Classify shock based on aetiology	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
Hom UG- Path M 4.12	KS	KH		Describe the pathogenesis of various types of shock	C2	MK	Lecture	Viva Voce MCQS AQ	Viva Voce MCQ SAQ LAQ	

Hom UG- Path M 4.13	KS	KH		Describe the stages of shock	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
Hom UG- Path M.4.14	KS	K	Thrombosis	Define the term “Thrombosis” ;“Thrombus” .	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
Hom UG- Path M.4.15	KS	K		Enumerate the primary events in Thrombogenesis-Virchow’s triad	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
Hom UG- Path M.4.16	KS	KH		Describe the etio-pathogenesis of thrombosis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
Hom UG- Path M.4.17	KS	KH		Describe the morphologic features of thrombi	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG- Path M.4.18	KS	KH		Describe the fate of thrombus	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	

Hom UG Path M.4.19	KS	KH	Clinical effects of thrombi	Describe the clinical effects of various types of thrombi	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M.4.20	KS	K	Embolism	Define the term “Embolism”, “Embolus”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
Hom UG Path M 4.21	KS	K		Describe the various types of Emboli	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M 4.22	KS	KH	Etiopathogenesi s of Pulmonary thromboemboli s m	Describe the aetiopathogenesis of Pulmonary thromboembolism	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M 4.23	KS	KH	Pathogenesis of Thromboemboli sm	Describe the consequences of pulmonary thromboembolism	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Practice of medicine
Hom UG Path M	KS	KH	Pathogenesis of fat embolism	Describe the pathogenesis of fat embolism	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	

Hom UG Path M.4.25	KS	KH	Pathogenesis of air embolism	Describe the pathogenesis of air embolism	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ	
Hom UG Path M.4.26	KS	KH	Pathogenesis of amniotic fluid embolism	Describe the pathogenesis amniotic fluid embolism	C2	NK	Lecture	NA		
Hom UG Path M.4.27	KS	K	Ischaemia	Define the term “Ischaemia”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M.4.28	KS	KH		Describe the etiopathogenesis of Ischaemia	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M.4.29	KS	KH		Describe the factors determining severity of Ischaemic injury	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M.4.30	KS	K	Infarction	Define the term “Infarction”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
Hom UG Path M.4.31	KS	KH		Describe the etiopathogenesis of Infarction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Practice of medicine

Hom UG Path M.4.32	KS	K		State the types of Infract	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
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5.5. Immunopathology

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbe rt	Priorit y	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.5.1	KS	K	Definition of Immunity	Define the term “Immunity”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology
HomU G-Path M.5.2	KS	K	Types of immunity	State the types of immunity	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology
HomU G-Path M.5.3	KS	KH	Components of Innate immunity	Describe the four components of Innate immunity	C2	MK	Lecture Slide presen tation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Physiology
HomU G-Path M.5.4	KS	KH	Functions of Innate immunity	Describe the functions of Innate immunity	C2	MK	Lecture Slide presen tation	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Physiology

HomU G-Path M.5.5	KS	K	Definition of Adaptive immunity”	Define the term “Adaptive immunity”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.6	KS	K	Classification of Adaptive immunity	Classify Adaptive immunity with examples for each type	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.7	KS	KH	Features of Active immunity	Describe the features of Active immunity	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.8	KS	KH	Features of Passive immunity	Describe the features of Passive immunity	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.9	KS	K	Local immunity	Explain Local immunity	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.10	KS	K	Herd immunity	Explain Herd immunity	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.11	KS	K	Organs of immune system	State the organs of immune system	C1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	Phy siol ogy

HomU G-Path M.5.12	KS	K	Cells and Organs of Immune system	State the cells of the immune system	C1	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	Physiology
HomU G-Path M.5.13	KS	KH	Humoral immunity	Explain the mechanism of humoral immunity	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Physiology
HomU G-Path M.5.14	KS	KH	Differences between Primary and Secondary immune response	Enumerate the differences between Primary and Secondary immune response	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.15	KS	KH	Mechanism of cell mediated immunity	Describe the mechanism of cell mediated immunity	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.16	KS	K	Definition of “Antigen”	Define the term “Antigen”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology
HomU G-Path M.5.17	KS	K	Definition of “Antibody”, “Immunoglobulin”	Define the terms “Antibody”, “Immunoglobulin”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology

HomU G-Path M.5.18	KS	K	Immunoglobulin and their function	State the types of Immunoglobulin classes and their function.	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.19	KS	KH	Biological functions of Complement	Describe the biological functions of Complement	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.20	KS	K	Types of antigen-antibody reaction with examples	Discuss the types of antigen-antibody reactions with examples	C1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.21	KS	K	Definition of Hypersensitivity	Define the term "Hypersensitivity"	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.22	KS	K	Types of hypersensitivity reactions	List the types of hypersensitivity reactions	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.23	KS	KH	Type I Hypersensitivity	Describe the mechanism of type I hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M.5.24	KS	KH	Type I Hypersensitiv t y reaction with examples	Describe the examples of type I hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.25	KS	KH	Type II Hypersensitiv t y reaction	Describe the mechanism of type II hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.26	KS	KH	Type II Hypersensitiv t y reaction – examples	Describe the examples of type II hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.27	KS	KH	Type III Hypersensitiv t y reaction	Describe the mechanism of type III hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.28	KS	KH	Type III Hypersensitiv t y reaction – examples	Describe the examples of type III hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M.5.29	KS	KH	Type IV Hypersensitivity reaction	Describe the mechanism of type IV hypersensitivity reaction	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.30	KS	KH	Type IV Hypersensitivity reaction – examples	Describe the examples of type IV hypersensitivity reaction	C2	MK	Lecture	Viva Voce SAQ MCQ	Viva Voce SAQ MCQ LAQ	
HomU G-Path M.5.31	KS	K	Autoimmunity	Define the term “Autoimmunity”	C1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.32	KS	KH		Describe the pathogenesis of autoimmunity	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.33	KS	K	Autoimmune diseases	State the autoimmune diseases	C1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.34	KS	K	Amyloidosis	Define the term “Amyloidosis”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.35	KS	K		Classify amyloidosis	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M.5.36	KS	KH		Describe the pathogenesis of amyloidosis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.5.37	KS	KH		Describe the features of amyloidosis of various organs .	C2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.5.38	KS	K	Homoeopathic concept of immunity	Explain the concept of immunity and hypersensitivity and correlate it with the Homoeopathic concepts of susceptibility	C1	NK	Lecture	VivaVoce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Organon of Medicine

5.6. Neoplasia

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.6.1	KS	K	Definition of Neoplasia	Define the term “Neoplasia”	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.2	KS	K	Nomenclature of tumours	Explain the nomenclature of tumours	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	

HomU G-Path M.6.3	KS	K	Classification of tumours	Classify tumours based on histogenesis and anticipated behaviour	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.4	KS	K	Special categories of tumours	State the special categories of tumours with examples	C 1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.5	KS	K	Characteristics of benign and malignant neoplasms	State the characteristics of tumours	C 1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.6	KS	KH	Differentiating features of benign and malignant neoplasms	Differentiate benign and malignant neoplasms based on the clinical and gross features	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.7	KS	KH		Differentiate benign and malignant neoplasms based on microscopic features	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.8	KS	K	Definition of “Differentiation”, “Anaplasia”	Define the terms “Differentiation”, “Anaplasia”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	

HomU G-Path M.6.9	KS	KH	Differentiating features of benign and malignant neoplasms	Differentiate benign and malignant neoplasms based on their rate of growth	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.10	KS	KH		Differentiate benign and malignant neoplasms based on their spread - local invasion and metastasis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.17	KS	K	Definition of Metastasis	Define the term “Metastasis”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.18	KS	K	Routes of Metastasis	Discuss the routes of Metastasis with examples	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	Surgery
HomU G-Path M.6.19	KS	KH	Lymphatic spread of malignant tumours	Describe the mechanism of lymphatic spread of malignant tumours	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.20	KS	KH	Haematogenous metastasis	Describe the mechanism of Haematogenous spread of malignant tumours	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	

HomU G-Path M.6.21	KS	KH	Spread of cancer along body cavities and natural passages	Describe the mechanism of spread of cancer along body cavities and natural passages	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.22	KS	KH	Molecular basis of cancer	Describe Molecular basis of cancer	C2	NK	Lecture	NA	NA	
HomU G-Path M.6.23	KS	K	Definition of Carcinogenesis , Carcinogen	Define the terms “Carcinogenesis”, “Carcinogen”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ	
HomU G-Path M.6.24	KS	K	Carcinogens	Enumerate the various types of carcinogens	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.25	KS	KH	Chemical Carcinogenesis	Describe the three sequential stages in chemical carcinogenesis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ LAQ	
HomU G-Path M.6.26	KS	KH	Physical carcinogenesis	Describe the mechanism of physical carcinogenesis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	

HomU G-Path M.6.27	KS	KH	Biological carcinogenesis	Describe the mechanism of biological carcinogenesis	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.28	KS	KH	Effects of tumour on the host	Describe the effects of tumour on the host	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.29	KS	K	Definition of Paraneoplastic syndromes	Define the term “Paraneoplastic syndromes”	C1	MK	Lecture	Viva Voce MCQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.30	KS	KH	Paraneoplastic syndromes	State the various clinical syndromes included in Paraneoplastic syndromes	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.31	KS	KH	Definition of “Grading”, “Staging”	Define the terms “Grading”, “Staging”	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Surgery
HomU G-Path M.6.32	KS	KH	Tumour grading	Explain about the grading of tumour.	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Surgery
HomU G-Path M.6.33	KS	KH	Staging of tumours	Explain about the staging of tumour	C2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Surgery

HomU G-Path M.6.34	KS	K	Laboratory Diagnosis of Cancer	State the various methods of Laboratory diagnosis of tumours	C1	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.35	KS	K	Tumour markers	State the important liquid based biomarkers in tumour diagnosis	C1	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	
HomU G-Path M.6.36	KS	KH	Homoeopathic concept	Discuss about the miasmatic concept of neoplastic disorder	C 2	DK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	OM,M M,Re pertory

5.7. Environmental and nutritional diseases

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priorit y	TL MM	Assessment		Integration
								F	S	
HomU G-Path M.7.1	KS	KH	Obesity	Define the term “Obesity”	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.2	KS	KH	Obesity	Describe the etiopathogenesis of Obesity	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.3	KS	KH	Pathogen esis of protein energy malnutriti on	Describe the pathogenesis of protein energy malnutrition	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine

HomU G-Path M.7.4	KS	KH	Difference between Kwashiorkor and marasmus	Enumerate the differences between Kwashiorkor and Marasmus	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.5	KS	KH	Vitamin A	Describe the lesions in Vitamin A deficiency	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.6	KS	KH	Vitamin C	Describe the lesions in Vitamin C deficiency	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.7	KS	KH	Vitamin D	Describe the lesions in Vitamin D deficiency	C 2	MK	Lecture	Viva Voce MCQ SAQ	Viva Voce MCQ SAQ	Physiology Community medicine
HomU G-Path M.7.8	KS	KH	Vitamin E	Describe the lesions in Vitamin E deficiency	C 2	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology Community medicine
HomU G-Path M7.9	KS	KH	Vitamin K	Describe the lesions in Vitamin K deficiency	C 2	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology Community medicine
HomU G-Path M.7.10	KS	KH	Vitamin B1	Describe the lesions in Vitamin B1(Thiamine) deficiency	C 2	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology Community medicine
HomU G-Path M.7.11	KS	KH	Vitamin B2	Describe the lesions in Vitamin B2 (Riboflavin) deficiency	C 2	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology Community medicine

HomU G-Path M.7.12	KS	KH	Vitamin B3	Describe the lesions in Vitamin B3 (Niacin) deficiency	C 2	DK	Lecture	Viva Voce MCQ	VivaVoce MCQ	Physiology , Community medicine
HomU G-Path M.7.13	KS	KH	Vitamin B6	Describe the lesions in Vitamin B 6 (Pyridoxine) deficiency	C 2	DK	Lecture	Viva Voce MCQ	Viva Voce MCQ	Physiology , Community medicine

5.8. Diseases of the haematopoietic system, bone marrow and blood

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.1	KS	K	Red cell disorders	Define the term “Anaemia” Megaloblastic Anaemia”	C 1	MK	Lecture	Viva MCQ	SAQ Viva MCQ	Physiology
HOMU G-Path M. 8.2	KS	KH	Classification of Anaemia	State the patho-physiologic classification of anaemia	C 2	MK	Lecture	Viva voce, MCQ	LAQ SAQ Viva .MCQ	Physiology
HOMU G-Path M. 8.3	KS	K		State the morphologic classification of anaemia	C 1	MK	Lecture	Viva voce, MCQ	LAQS AQ. Viva MCQ	Physiology
HOMU G-Path M. 8.4	KS	KH		Explain the scheme of laboratory investigations for anaemia	C 2	MK	Lecture	Viva voce, MCQ	LAQ, SAQ. Viva . MCQ	Physiology Practice of medicine
HOMU G-Path M. 8.5	KS	K	Iron deficiency Anaemia	Define Iron deficiency Anaemia	C 1	MK	Lecture	Viva ,voce, MCQ	SAQ. Viva . MCQ	Physiology

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.6	KS	KH		Describe the etio-pathogenesis of Iron deficiency anaemia	C 2	MK	Lecture	Viva voce, MC Q	LAQ SAQ. Viva . MC Q	
HOMU G-Path M. 8.7	KS	KH		Describe the laboratory findings of iron deficiency anaemia	C 2	MK	Lecture	Viva voce, MC Q	LAQ SAQ Viva MC Q	Practice of medicine
HOMU G-Path M. 8.8	KS	KH	Megaloblastic Anaemia	Describe the etio-pathogenesis of Megaloblastic anaemia	C 2	MK	Lecture	Viva voce, MC Q	LAQ SAQ Viva MCQ	
HOMU G-Path M. 8.9	KS	KH		Describe the laboratory diagnosis of Megaloblastic Anaemia	C 2	MK	Lecture	Viva voce, MC Q	LAQ SAQ. Viva . MC Q	Practice of medicine
HOMU G-Path M. 8.10	KS	K	Pernicious Anaemia	Define Pernicious Anaemia	C 1	DK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	

HOMU G-Path M. 8.11	KS	KH		Discuss the etio- pathogenesis of Pernicious Anaemia	C 2	DK	Lecture	Viva voce, MC Q	SAQ. Viv a . MC Q	
HOMU G-Path M. 8.12	KS	KH		Discuss the laboratory diagnosis of Pernicious Anaemia	C 2	DK	Lecture	Viva voce, MC Q	SAQ. Viv a . MC Q	Practice of medicine
HOMU G-Path M. 8.13	KS	K	Haemolytic Anaemia	Define the term “Haemolytic Anaemia”	C 1	MK	Lecture	Viva voce, MC Q	SAQ. Viv a . MC Q	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.14	KS	KH		Classify Haemolytic Anaemias	C2	MK	Lecture	Viva voce, MC Q	LAQ. SAQ. Viva . MC Q	
HOMU G-Path M. 8.15	KS	KH		Describe laboratory evaluation of Haemolytic Anaemia	C 2	MK	Lecture	Viva voce, MC Q	LAQ. SAQ. Viva . MC Q	
HOMU G-Path M. 8.16	KS	K	types of Haemoglobinopathies	Classify Haemoglobinopathies	C 1	DK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	
HOMU G-Path M. 8.17	KS	K	Sickle cell Anaemia	Define Sickle cell Anaemia	C 1	DK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	

HOMU G-Path M. 8.18	KS	KH		Discuss the etio- pathogenesis of sickle cell anaemia	C2	DK	Lecture	Viva voce, MC Q	LAQS AQ. Viva . MC Q	
HOMU G-Path M. 8.19	KS	KH		Discuss the laboratory findings of sickle cell anaemia	C 2	DK	Lecture	Viva voce, MC Q	LAQS AQ. Viva . MC Q	
HOMU G-Path M. 8.20	KS	K	Thalassemia	Define Thalassemia	C 1	MK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.21	KS	KH		Classify Thalassemia	C 2	MK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	
HOMU G-Path M. 8.22	KS	KH		Discuss the pathophysiology of anaemia in Thalassemia	C 2	MK	Lecture	Viva voce, MC Q	LAQS AQ. Viva . MC Q	
HOMU G-Path M. 8.23	KS	KH		Describe the laboratory findings of Thalassemia.	C 2	MK	Lecture	Viva voce, MC Q	LAQS AQ. Viva . MC Q	Practice of medicine
HOMU G-Path M. 8.24	KS	K	Aplastic anaemia.	Define the term “Aplastic anaemia”	C 1	DK	Lecture	Viva voce, MC Q	SAQ. Viva . MC Q	

HOMU G-Path M. 8.25	KS	KH	.	State the etiology of Aplastic anaemia.	C 2	DK	Lecture	Viva voce, MC Q	SAQ. Viva a. MC Q	
HOMU G-Path M. 8.26	KS	KH		Describe laboratory findings of Aplastic anaemia.	C 2	DK	Lecture	Viva voce, MC Q	SAQ. Viva .MCQ	Practice of medicine
HOMU G-Path M. 8.27	KS	K	Polycythaemia	Define Polycythaemia	C 1	DK	Lecture	Viva voce, MC Q	SAQ. Viva a. MC Q	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.28	KS	KH	Classification of Polycythaemia	Classify Polycythaemia on the basis of etiology	C2	DK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	
HOMU G-Path M. 8.29	KS	KH	laboratory diagnosis of Polycythaemia	Describe laboratory features of Polycythaemia	C2	DK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.29	KS	K	WBC disorders	Define the terms “Leukocytosis” “Leukopenia”, “Leukaemoid reaction”, “Leukaemias”	C 1	MK	Lecture	Viva voce, MCQ	Viva MCQ	
HOMU G-Path M. 8.30	KS	KH	Leukaemia	Classify Leukaemias	C2	MK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	
HOMU G-Path M. 8.31	KS	K		Describe the aetiology of Leukaemia	C1	MK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	
HOMU G-Path M. 8.32	KS	KH	Leukaemia	Describe the laboratory diagnosis of Chronic Myeloid Leukaemia	C 2	MK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.33	KS	KH		Describe the laboratory diagnosis of Acute Myeloid Leukaemia	C 2	MK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	Practice of medicine

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.34	KS	KH	Haemorrhagic disorders	Describe the laboratory diagnosis of Acute lymphoblastic Leukaemia	C 2	MK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.35	KS	K		State the aetiology of bleeding disorders	C 1	MK	Lecture	Viva SAQ MCQ	Viva SAQ MCQ	
HOMU G-Path M. 8.36	KS	K		Define Haemophilia A	C 1	MK	Lecture	Viva MCQ	Viva MCQ	
HOMU G-Path M. 8.37	KS	K		Describe the laboratory features of Haemophilia A	C 1	MK	Lecture	Viva MCQ	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.38	KS	K		Define the terms “Thrombocytopenia”, “Thrombocytosis”	C 1	MK	Lecture	Viva MCQ	Viva . MCQ	
HOMU G-Path M. 8.39	KS	K		State the causes of Thrombocytopenia	C 1	MK	Lecture	Viva SAQ MCQ	SAQ. Viva . MCQ	
HOMU G-Path M. 8.40	KS	KH	Plasma cell myeloma	Define multiple myeloma.	C 2	DK	Lecture	Viva voce, MCQ	SAQ. Viva . MCQ	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G-Path M. 8.41	KS	KH	Plasma cell myeloma	Describe the laboratory diagnosis of Multiple myeloma	C 2	DK	Lecture	Viva voce, MC Q	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.42	KS	K	Hodgkin's lymphoma	Discuss features of Hodgkin's lymphoma	C1	DK	Lecture	Viva SAQ MC Q	SAQ. Viva . MCQ	Practice of medicine
HOMU G-Path M. 8.43	KS	K		Explain the appearance of Reed Sternberg cell in tissues	C 1	DK	Lecture	Viva SAQ MC Q	SAQ. Viva . MCQ	
HOMU G-Path M. 8.44	KS	K		Discuss features of Non Hodgkin's lymphoma	C 1	NK	Lecture	Viva SAQ MC Q	NA	Practice of medicine
HOMU G-Path M. 8.45	KS	K	Splenomegaly	State the causes of Splenomegaly	C1	DK	Lecture	Viva SAQ MC Q	Viva SAQ MCQ	

5.9. Diseases of the Respiratory System

I. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 9.1	KS	K	Pulmonary Tuberculosis	Describe the three components of Primary complex or Ghon complex	C 1	MK	Lecture	Viva LAQ SAQ MCQ	LA Q SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.2	KS	K		Describe the fate of primary tuberculosis	C1	MK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	
HOMU G Path M. 9.3	KS	K		Describe the morphology of Secondary pulmonary tuberculosis	C1	MK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	
HOMU G Path M. 9.4	KS	K		Enumerate the differences between Primary tuberculosis and Secondary tuberculosis	C1	MK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	

HOMU G Path M. 9.5	KS	K		Describe the fate of secondary pulmonary tuberculosis	C1	MK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	
HOMU G Path M. 9.6	KS	K		Discuss the diagnosis of pulmonary tuberculosis	C1	MK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.7	KS	K	Pneumonia	Define the term “Pneumonia”	C1	MK	Lecture	Viva MCQ	Viva MCQ	

I. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 9.8	KS	K		State the Anatomic classification of Pneumonia	C1	MK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.9	KS	K		State the Aetiologic classification of Pneumonia	C1	MK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.11	KS	KH		Discuss the morphologic features of lobar Pneumonia	C 2	MK	Lecture	Viva LAQ SAQ MCQ	LA Q SAQ Viva MCQ	
HOMU G Path M. 9.12	KS	K		Discuss the morphologic features of bronchopneumonia	C1	MK	Lecture	Viva SAQ MCQ	Viva SAQ MCQ	
HOMU G Path M. 9.16	KS	KH		State the complications of Pneumonia	C2	MK	Lecture	Viva voce, MCQ	SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.17	KS	K	Lung abscess	Define the term “Lung abscess”	C1	MK	Lecture	Viva MCQ	Viva MCQ	

HOMU G Path M. 9.18	KS	KH		Describe aetiopathogenesis of lung abscess	C 2	MK	Lecture	Viva SAQ MCQ	Viva MCQ	Practice of medicine
HOMU G Path M. 9.19	KS	KH		Explain the morphology of lung abscess	C2	DK	Lecture	Viva SAQ MCQ	Viva MCQ	
HOMU G Path M. 9.20	KS	K	Obstructive lung diseases	Classify chronic obstructive lung diseases	C1	MK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	

I. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 9.21	KS	K	Chronic bronchitis.	Define the term “Chronic Bronchitis”	C1	MK	Lecture	Viva MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.22	KS	KH		Describe the etio-pathogenesis of chronic bronchitis	C2	MK	Lecture	Viva LAQ SAQ MCQ	LA Q SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.23	KS	KH		Describe the morphologic features of chronic bronchitis.	C 2	DK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.24	KS	K	Emphysema	Define the term “Emphysema”	C1	MK	Lecture	Viva MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.25	KS	K		Classify Emphysema	C1	MK	Lecture	Viva voce, MCQ	LA Q Viva SAQ MCQ	

HOMU G Path M. 9.26	KS	KH		Explain the aetio- pathogenesis of Emphysema	C2	MK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	Practice of medicine
HOMU G Path M. 9.27	KS	K	Emphysema	Describe the morphologic features of emphysema.	C1	DK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	Practice of medicine
HOMU G Path M. 9.28	KS	K	Bronchial Asthma	Define the term “Bronchial Asthma”	C1	MK	Lecture	Viva MCQ	SAQ Viva MCQ	

I. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 9.29	KS	K		Classify Bronchial Asthma	C1	MK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	
HOMU G Path M. 9.30	KS	K		Enumerate the differences between Extrinsic Asthma and Intrinsic Asthma	C1	MK	Lecture	Viva SAQ MCQ	LA Q SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.31	KS	KH		Describe the morphologic features of Bronchial asthma	C 2	MK	Lecture	Viva SAQ MCQ	LA Q Viva SAQ MCQ	
HOMU G Path M. 9.32	KS	K	Bronchiectasis	Define the term “Bronchiectasis”	C1	MK	Lecture	Viva voce, MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.33	KS	KH		Describe the aetiopathogenesis of bronchiectasis	C 2	MK	Lecture	Viva voce, MCQ	SAQ Viva MCQ	Practice of medicine

HOMU G Path M. 9.34	KS	K		Describe the morphology of bronchiectasis	C1	MK	Lecture	Viva voce, MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.35	KS	K	Pneumoconiosis	Define the term “Pneumoconioses”	C1	DK	Lecture	Viva MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.36	KS	K		Classify Pneumoconiosis	C1	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.37	KS	KH	coal worker’s pneumoconiosis.	Describe the etio- pathogenesis of coal worker’s pneumoconiosis.	C2	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	Practice of medicine

I. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 9.38	KS	K		Describe the morphologic features of coal worker's pneumoconiosis.	C1	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.39	KS	K	Lung cancer	Describe the aetiology of Lung cancer	C1	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	Practice of medicine
HOMU G Path M. 9.40	KS	K		Describe the morphology of lung cancer	C1	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.41	KS	K		Explain the spread of lung cancer	C1	DK	Lecture	Viva SAQ MCQ	SAQ Viva MCQ	
HOMU G Path M. 9.42	KS	KH		Describe the clinical features of lung cancer	C 2	NK	Lecture	Viva SAQ MCQ	NA	Practice of medicine, Surgery

5.10. Diseases of the oral cavity and salivary glands and gastrointestinal tract

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 10.1	KS	K		Definition of “Stomatitis”, “Glossitis”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMU G Path M. 10.2	KS	K	Oral leukoplakia	Define the term “Oral leucoplakia”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMU G Path M. 10.3	KS	K		Describe the aetiology of Oral Leukoplakia	C 1	DK	Lecture	Viva SAQ MCQ	SAQ, MCQ, Viva	Practice of medicine, Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMUG Path M. 10.4	KS	K		Describe the morphologic features of oral leukoplakia	C 1	NK	Lecture	Viva SAQ MCQ	SAQ, MCQ, Viva	Practice of medicine, Surgery
HOMUG Path M. 10.5	KS	K	Diseases of GI system	Define reflux oesophagitis.	C1	MK	Lecture	Viva voce, MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 10.6	KS	KH	Reflux esophagitis	Describe the aetiopathogenesis of Reflux esophagitis	C 2	MK	Lecture	SAQ MCQ	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M. 10.7	KS	KH		Describe the morphology of Reflux Oesophagitis	C 2	MK	Lecture	SAQ MCQ	LAQ SAQ MCQ Viva	
HOMUG Path M. 10.8	KS	KH	Barrett's oesophagus	Describe the aetiopathogenesis, of Barrett oesophagus	C 2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva voce	Practice of medicine, Surgery
HOMUG Path M. 10.9	KS	K		Describe the morphology of Barret oesophagus	C 1	MK	Lecture	SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.10	KS	K	Carcinoma oesophagus	Describe the aetiology of carcinoma oesophagus	C 1	NK	Lecture	NA	NA	Practice of medicine, Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority TL	MM	Assessment		Integration
								F	S	
HOMUG Path M. 10.11	KS	K		Describe the morphology of Carcinoma of oesophagus	C 1	NK	Lecture	Viva SAQ MCQ	NA	
HOMUG Path M. 10.12	KS	KH		Describe the spread of Carcinoma oesophagus.	C2	NK	Lecture	Viva SAQ MCQ	NA	Practice of medicine, Surgery
HOMUG Path M. 10.13	KS	K	Gastritis	Classify Gastritis	C 1	MK	Lecture	Viva SAQ MCQ	Viva SAQ MCQ	
HOMUG Path M. 10.14	KS	K	Gastritis	Describe the aetiopathogenesis of Acute gastritis	C 1	MK	Lecture	Viva SAQ MCQ	Viva MCQ	Practice of medicine, Surgery
HOMUG Path M. 10.15	KS	K		Describe the aetiopathogenesis of Chronic gastritis	C 1	MK	Lecture	Viva SAQ MCQ	Viva MCQ	
HOMUG Path M. 10.16	KS	K	Peptic ulcer	Define the term “Peptic ulcer”	C 1	MK	Lecture	Viva voce, MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 10.17	KS	KH		Describe the aetiopathogenesis of chronic peptic ulcer	C 2	MK	Lecture	SAQ MCQ	SAQ MCQ Viva LAQ	Practice of medicine, Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilber t	Prior TL	MM	Assessment		Integration
								F	S	
HOMUG Path M. 10.18	KS	KH		Describe the morphology of chronic peptic ulcer	C 2	MK	Lecture	SAQ MCQ	LAQ SAQ, MCQ, Viva	Practice of medicine, Surgery
HOMUG Path M. 10.19	KS	KH		Describe the complications of Peptic ulcer	C2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	Practice of medicine, Surgery
HOMUG Path M. 10.20	KS	KH		Discuss differences between gastric ulcer and duodenal ulcers.	C2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.21	KS	K	gastric carcinoma,	Describe the aetiology of Gastric carcinoma	C 1	DK	Lecture	Viva SAQ MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 10.22	KS	K	gastric carcinoma,	Describe morphology of gastric carcinoma	C 1	DK	Lecture Viva	SAQ MCQ	LAQ SAQ, MCQ, Viva	Practice of medicine, Surgery
HOMUG Path M. 10.23	KS	K		Describe the spread of gastric carcinoma.	C 1	DK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.24	KS	K	Acute appendicitis	Define the term “Acute appendicitis”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 10.25	KS	KH		Describe the etio pathogenesis of acute appendicitis	C 2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ MCQ Viva	Practice of medicine, Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority TL	MM	Assessment		Integration
								F	S	
HOMUG Path M. 10.26	KS	KH		Describe the morphology of Acute appendicitis	C2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ MCQ Viva	
HOMUG Path M. 10.27	KS	KH	Inflammatory bowel disease	Describe the aetio pathogenesis of Inflammatory bowel disease	C 2	MK	Lecture Viva	SAQ MCQ	SAQ, MCQ, Viva	Practice of medicine, Surgery
HOMUG Path M. 10.28	KS	K		Describe the morphologic features of Crohn's disease	C 1	MK	Lecture Viva	SAQ MCQ	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M. 10.29	KS	K		Describe the morphologic features of Ulcerative colitis	C 1	MK	Lecture Viva	SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.30	KS	K	Inflammatory bowel disease	Enumerate the differences between Crohn's disease and Ulcerative Colitis.	C 1	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.31	KS	K		Discuss the complications of Inflammatory bowel disease	C 1	MK	Lecture	SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.32	KS	K	Carcinoma Colon	Describe the aetiology of Colorectal cancer	C 1	DK	Lecture	Viva MCQ	LAQ SAQ, MCQ,	Practice of medicine, Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMUG Path M. 10.33	KS	K		Describe the morphology of Colorectal cancer	C 1	DK	Lecture	SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.34	KS	K		Describe the spread of Colorectal cancer	C 1	DK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	
HOMUG Path M. 10.35	KS	K	Intestinal tuberculosis	Describe the pathology of Intestinal tuberculosis	C 1	DK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	

5.11. Diseases of liver, gall bladder and biliary ducts

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 11.1	KS	K	Liver Function Tests	Discuss the liver function tests alongwith clinical significance of each	C 1	MK	Lecture	OSPE Viva MCQ	OSPEL AQ SAQ MCQ Viva	
HOMUG Path M. 11.2	KS	K	Jaundice	Define the term “Jaundice”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 11.3	KS	K		State the pathophysiologic classification of jaundice.	C 1	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ,Viva	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G Path M. 11.4	KS	K	Cholestasis	Define Cholestasis	C 1	MK	Lecture	Viva voce, MC Q	SAQ, MCQ, Viva	
HOMU G Path M. 11.5	KS	K	Alcoholic Liver Disease	Define the term “Alcoholic liver disease”	C 1	MK	Lecture	Viva voce, MC Q	SAQ, MCQ, Viva	
HOMU G Path M. 11.6	KS	K		Explain the pathogenesis of alcoholic liver disease	C 1	MK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ, Viva	
HOMU G Path M. 11.7	KS	K		Describe the morphologic spectrum of alcoholic liver disease	C 1	MK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ, Viva	Practice of medicine
HOMU G Path M. 11.8	KS	K	Liver Cirrhosis	Define the term “Liver cirrhosis”	C 1	MK	Lecture	Viva voce, MC Q	LAQ SAQ, MCQ Vi va	

HOMU G Path M. 11.9	KS	K	Liver Cirrhosis	Classify Cirrhosis based on morphology and aetiology	C 1	DK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ Vi va	Practice of medicine
HOMU G Path M. 11.10	KS	KH		Describe the morphology of Alcoholic cirrhosis	C 2	MK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ Vi va	

Sl. No.	Domain of Competency	Miller	Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMU G Path M. 11.11	KS	K	Hepatocellular Carcinomas	State the aetiology of Hepatocellular Carcinomas	C 1	DK	Lecture	Viva SAQ MCQ	Viva SAQ MCQ	
HOMU G Path M. 11.12	KS	K		Describe the morphology of hepatocellular carcinoma.	C 1	DK	Lecture	Viva SAQ MCQ	Viva SAQ MCQ	Practice of medicine , Surgery
HOMU G Path M. 11.13	KS	K	Cholelithiasis.	State the risk factors of cholelithiasis.	C 1	MK	Lecture	Viva SAQ MCQ	SAQ, MCQ, Viva	
HOMU G Path M. 11.14	KS	KH		Describe the pathogenesis of cholelithiasis/ gall stones	C 2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	Practice of medicine , Surgery
HOMU G Path M. 11.15	KS	K		Describe the various types of gall stones	C 1	MK	Lecture	Viva SAQ MCQ	LAQ SAQ, MCQ, Viva	

5.12. Diseases of the pancreas

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 12.1	KS	K	Acute Pancreatitis	Define the term “Acute pancreatitis”	C 1	MK	Lecture	Viva MCQ	MCQ, Viva	
HOMU G Path M. 12.2	KS	KH		Describe the aetio pathogenesis of acute pancreatitis	C 2	MK	Lecture	MCQ	MCQ, Viva	Practice of medicine , Surgery

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
HOMU G Path M. 12.3	KS	K	Chronic Pancreatitis	State the morphologic features of acute pancreatitis.	C 1	MK	Lecture	Viva voce, SAQ MCQ	MCQ, Viva voce	
HOMU G Path M. 12.4	KS	K		Define the term “Chronic pancreatitis”	C 1	DK	Lecture	Viva voce, MCQ	MCQ, Viva	
HOMU G Path M. 12.5	KS	KH		Describe the aetio pathogenesis of chronic Pancreatitis	C 2	DK	Lecture	voce, SAQ MCQ	MCQ, Viva voce	Practice of medicine , Surgery
HOMU G Path M. 12.6	KS	K		State the morphologic features of Chronic Pancreatitis.	C 1	DK	Lecture	Viva voce, SAQ MCQ	MCQ, Viva	
HOMU G Path M. 12.7	KS	K	Diabetes mellitus	Define the term “Diabetes mellitus”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	

HOMU G Path M. 12.8	KS	K		Enumerate the aetiologic classification of diabetes mellitus	C 1	DK	Lecture	Viva SAQ MCQ	MCQ Viva SAQ	
HOMU G Path M. 12.9	KS	K		Describe the pathogenesis of Type1 diabetes mellitus	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva SAQ	Practice of medicine
HOMU G Path M. 12.10	KS	K		Describe the pathogenesis of Type 2 diabetes mellitus	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva SAQ	Practice of medicine
HOMU G Path M. 12.11	KS	K		Discuss the laboratory diagnosis of Diabetes Mellitus	C 1	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva	Practice of medicine

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	MM	Assessment		Integration
								F	S	
									SAQ	
HOMU G Path M. 12.12	KS	K		Describe the Acute metabolic complications of diabetes mellitus	C 1	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva SAQ	Practice of medicine
HOMU G Path M. 12.13	KS	K		Describe the Late systemic complications of diabetes mellitus	C 1	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva SAQ	

5.13. Diseases of blood vessels and lymphatics

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 13.1	KS	K	Arteriosclerosis	Define Arteriosclerosis	C 1	MK	Lecture	Viva voc e, M CQ	SAQ, MCQ, Viva	

HOMUG Path M. 13.2	KS	K		State the types of Arteriosclerosis	C 1	MK	Lecture	Viva MC Q	SAQ, MCQ, Viva	
HOMUG Path M. 13.3	KS	K	Atherosclerosis	the term “Atherosclerosis”	C 1	MK	Lecture	Viva MC Q	SAQ, MCQ, Viva	
HOMUG Path M. 13.4	KS	KH		Describe the aetiology of Atherosclerosis	C 2	MK	Lecture	Viva MC Q SAQ	LAQ SAQ MCQ Viva	Practice of medicine

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 13.5	KS	KH		Describe the pathogenesis of Atherosclerosis	C 2	MK	Lecture	MC Q SAQ	LAQ SAQ MCQ Viva	
HOMUG Path M.13.6	KS	K	Atherosclerosis	Describe the morphologic features of Atherosclerosis	C 1	MK	Lecture	Viva MC Q SAQ LAQ	LAQ SAQ, MCQ, Viva	
HOMUG PathM.13.7	KS	K	Hypertension.	Define the term "Hypertension"	C 1	MK	Lecture	Viva MC Q	SAQ, MCQ, Viva	Practice of medicine
HOMUG Path M. 13.8	KS	K		Enumerate the aetiologic classification of Hypertension	C 1	MK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ, Viva	Practice of medicine
HOMUG Path M. 13.9	KS	KH		Describe the aetio pathogenesis of Primary/essential Hypertension	C 2	MK	Lecture	SAQ MC Q	LAQ SAQ, MCQ, Viva	Practice of medicine

HOMUG Path M. 13.10	KS	KH		Describe the aetio pathogenesis of Secondary Hypertension	C 2	MK	Lecture	Viva SAQ MC Q	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M. 13.11	KS	KH		State the major effects of systemic hypertension on the organs	C 2	MK	Lecture	Viva voce, SAQ MC Q	LAQ SAQ, MCQ, Viva voce	

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 13.12	KS	K	Aneurysm	Define the term “Aneurysm”	C 1	DK	Lecture	Viva voce, MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 13.13	KS	K		Classify Aneurysm	C 1	DK	Lecture	Viva voce, MCQ, SAQ	LAQ, SAQ, MCQ, Viva voce	
HOMUG Path M. 13.14	KS	KH	Aneurysm	Describe the clinical effects of aneurysms	C 2	DK	Lecture	voce, MCQ, SAQ	LAQ, SAQ, MCQ, Viva voce	
HOMUG Path M. 13.15	KS	K	Tumors of blood vessels	State the benign tumours of blood vessels	C 1	NK	Lecture	Viva voce, MCQ	NA	
HOMUG Path M. 13.16	KS	K		State the malignant tumours of blood vessels	C 1	NK	Lecture	Viva voce, MCQ	NA	
HOMUG Path M. 13.17	KS	K		Define the term “Lymphangitis”	C 1	NK	Lecture	Viva voce, MCQ	Viva MCQ	

5.14. Diseases of cardiovascular system

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomUG Path M. 14.1	KS	K	Ischaemic Heart Disease	Define the term “Ischaemic Heart Disease”	C 1	MK	Lecture	Viva voce, MC Q	SAQ, MC Q, Viva	
HomUG Path M. 14.2	KS	KH		Describe the etio pathogenesis of Ischaemic Heart Disease	C 2	MK	Lecture	Viva MC Q SAQ	LAQ SAQ, MC Q, Viva	Practice of medicine
HomUG Path M. 14.3	KS	K		State the effects of Myocardial ischaemia	C 1	MK	Lecture	Viva MC Q SAQ	LAQ SAQ, MC Q, Viva	Practice of medicine
HomUG Path M. 14.4	KS	K	Angina Pectoris	Define the term “Angina Pectoris”	C 1	MK	Lecture	Viva voce, MC Q	SAQ, MC Q, Viva	

HomUG Path M. 14.5	KS	K		Describe Stable or Typical angina	C 1	MK	Lecture	Viva voce, MC Q SAQ	SAQ, MC Q, Viv a voce	
HomUG Path M. 14.6	KS	K		Explain Prinzmetal's variant Angina	C 1	MK	Lecture	Viva voce, MC Q SAQ	SAQ, MC Q, Viv a voce	
HomUG Path M. 14.7	KS	K		Describe Unstable or Crescendo angina.	C 1	MK	Lecture	Viva voce, MC Q SAQ	SAQ, MC Q, Viv a voce	

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomUG Path M. 14.8	KS	KH	Myocardial Infarction.	Describe the aetio pathogenesis of Myocardial Infarction.	C 2	MK	Lecture	Viva voce, MC Q, SAQ	LAQ, SAQ, MC Q, Viva voce	Practice of medicine
HomUG Path M. 14.9	KS	KH		Describe the gross changes in Myocardial infarction	C 2	DK	Lecture	Viva SAQ, MC Q	LAQ, SAQ, MC Q, Viva	
HomUG Path M. 14.10	KS	KH		Describe the microscopic changes in Myocardial infarction	C 2	DK	Lecture	Viva SAQ, MC Q	LAQ, SAQ, MC Q, Viva	
HomUG Path M. 14.11	KS	KH		Describe the diagnosis of Myocardial Infarction.	C 2	MK	Lecture	Viva voce, MC Q, SAQ	LAQ, SAQ, MC Q, Viva voce	Practice of medicine

HomUG Path M. 14.12	KS	K	Rheumatic heartdisease.	Define the terms “Rheumatic fever”, “Rheumatic heart disease”	C 1	MK	Lecture	Viva voce, MC Q	MC Q, Viv a voce	
HomUG Path M. 14.13	KS	KH		Describe etio- pathogenesis of Rheumatic heart disease.	C 2	MK	Lecture	Viva voce, MC Q SAQ	LAQ SAQ, MC Q, Viv a voce	Practice of medicine
HomUG Path M. 14.14	KS	K		Describe the Cardiac lesions of Rheumatic heart disease	C 1	MK	Lecture	Viva voce, MC Q SAQ	LAQS AQ, MCQ, Viva voce	

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HomUG Path M. 14.15	KS	K	Rheumatic heart disease.	Describe the extra-cardiac lesions in Rheumatic heart disease.	C 1	MK	Lecture	Viva voce, MC Q, SAQ	SAQ, MC Q, Viva voce	
HomUG Path M. 14.16	KS	K		Enumerate the diagnostic criterion of Rheumatic heartdisease.	C 1	MK	Lecture	Viva voce, MC Q, SAQ	LAQS AQ, MC Q, Viva voce	
HomUG Path M. 14.17	KS	K	Infective Endocarditis	Define the term “Infective endocarditis”	C 1	DK	Lecture	Viva MC Q	SAQ, MC Q, Viva a	
HomUG Path M. 14.18	KS	KH	Infective Endocarditis	Describe the aetio pathogenesis of Infective Endocarditis	C 2	DK	Lecture	Viva MC Q, SAQ	SAQ, MC Q, Viva a	Practice of medicine

HomUG Path M. 14.19	KS	K		Describe the morphologic changes of Infective Endocarditis	C 1	NK	Lecture	Viva MC Q SAQ	NA	
HomUG Path M. 14.20	KS	K		Enumerate the Duke criteria for diagnosis of Infective endocarditis	C 1	NK	Lecture	Viva MC Q SAQ	NA	
HomUG Path M. 14.21	KS	KH		Define the term “Pericardial effusion”	C 2	MK	Lecture	Viva MC Q	MC Q, Viv a	
HomUG Path . 14.22	KS	KH		Define the term “Pericarditis”	C 2	MK	Lecture	Viva MC Q	MC Q, Viv a	Practice of medicine

5.15. Diseases of kidney and lower urinary tract

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 15.1	KS	K	Renal function tests	Discuss renal function tests in detail	C 1	MK	Lecture	Viva MCQ	OSPE LAQ SAQ MCQ Viva voce	Practice of medicine
HOMUG Path M. 15.2	KS	K	Glomerular disease	Define the term “Glomerulonephritis” “Nephrotic syndrome” “Acute nephritic syndrome”	C 1	MK	Lecture	Viva MCQ SAQ	MCQ Viva SAQ	
HOMUG Path M. 15.3	KS	K	Acute nephritic syndrome.	Enumerate the aetiology of Acute nephritic syndrome	C 1	DK	Lecture	Viva voce , MCQ SAQ	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M. 15.4	KS	KH	Acute nephritic syndrome.	Describe the clinical features of Acute nephritic syndrome.	C 2	DK	Lecture	Viva voce , MCQ SAQ	LAQ SAQ, MCQ, Viva voce	Practice of medicine
HOMUG Path M. 15.5	KS	K	Nephrotic syndrome	Enumerate the causes of Nephrotic syndrome	C 1	DK	Lecture	Viva MCQ SAQ	LAQ SAQ, MCQ, Viva	Practice of medicine

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 15.6	KS	K		Describe the characteristic features of Nephrotic syndrome	C 1	DK	Lecture	Viva MCQ SAQ	LAQ SAQ, MCQ, Viva	Practice of medicine
HOMUG Path M. 15.7	KS	KH		Enumerate the differences between Nephrotic syndrome and Acute Nephritic syndrome	C 2	MK	Lecture	Viva voce, MCQ SAQ	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M. 15.8	KS	K	Glomerulonephritis	Define Glomerulonephritis	C 1	DK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 15.9	KS	KH	Acute Post Streptococcal Glomerulonephritis	Describe the aetio pathogenesis of Acute post streptococcal glomerulonephritis.	C 2	MK	Lecture	Viva MCQ SAQ	LAQ SAQ, MCQ, Viva	Practice of medicine

HOMUG Path M. 15.10	KS	K	Nephrolithiasis	State the types of Renal calculi	C 1	MK	Lecture	Viva voce , MC Q SAQ	LAQ SAQ, MCQ, Viva voce	
HOMUG Path M.15.11	KS	K	Nephrolithiasis	Describe the etio- pathogenesis of each type of renal stones	C 1	MK	Lecture	Viva MC Q SAQ	LAQ SAQ, MCQ, Viva	

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M.15.12	KS	K		Describe the morphology of each type of renal stones	C 1	MK	Lecture	Viva SAQ MCQ	LAQ SAQ MCQ Viva	
HOMUG Path M.15.13	KS	K	Urinary tract infections	Define the term “Acute pyelonephritis” “ureteritis”, “Cystitis”, “Urethritis”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMUG Path M.15.14	KS	K	Renal Cell Carcinoma	Discuss the etiology of Renal Cell Carcinoma	C 1	DK	Lecture	Viva voce, MCQ SAQ	SAQ, MCQ, Viva voce	Practice of medicine, Surgery
HOMUG Path M.15.15	KS	K		Describe the morphology of Renal Cell Carcinoma	C 1	DK	Lecture	Viva voce, MCQ SAQ	SAQ, MCQ, Viva voce	
HOMUG Path M.15.16	KS	K	Wilm’s tumour	Describe the morphology of Wilm’s tumour	C 1	NK	Lecture	Viva voce, MCQ SAQ	NA	Practice of medicine, Surgery

5.16. Diseases of male reproductive system

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 16.1	KS	K	Inflammatory diseases	Define the terms “Orchitis”, “Epididymitis”	C 1	MK	Lecture	Viva MCQ	SAQ, MCQ, Viva	
HOMUG Path M. 16.2	KS	K	Testicular Tumors	Classify testicular tumors	C 1	DK	Lecture	Viva MCQ SAQ	SAQ, MCQ Viva	Practice of medicine , Surgery
HOMUG Path M. 16.3	KS	K		Discuss the morphology of Germ cell tumors	C 1	DK	Lecture	Viva MCQ SAQ	SAQ, MCQ Viva	
HOMUG Path M. 16.4	KS	K	Inflammatory diseases	Define the term “Prostatitis”	C 1	NK	Lecture	Viva MCQ	NA	
HOMUG Path M. 16.5	KS	K		State the types of Prostatitis	C 1	NK	Lecture	Viva MCQ	NA	Practice of medicine , Surgery

HOMUG Path M. 16.6	KS	KH	Benign Nodular Hyperplasia Of Prostate	Describe the etio- pathogenesis of Benign nodular hyperplasia of prostate	C 2	MK	Lecture	Viva MCQ SAQ	LAQ SAQ MCQ, Viva	Practice of medicine , Surgery
HOMUG Path M. 16.7	KS	KH		Describe the pathology of Benign nodular hyperplasia of prostate	C 2	MK	Lecture	Viva voce, MCQ SAQ	LAQ SAQ, MCQ, Viva voce	Practice of medicine , Surgery
HOMUG Path M. 16.8	KS	K	Ca Prostate	Describe the aetiology of Carcinoma of Prostate	C 1	NK	Lecture	Viva voce, MCQ SAQ	NA	

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 16.9	KS	KH		Describe the morphology of Carcinoma of Prostate	C 2	NK	Lecture	Viva voce, MCQ SAQ	NA	Practice of medicine , Surgery
HOMUG Path M. 16.10	KS	KH	Ca Prostate	Explain the spread of Carcinoma of Prostate	C2	NK	Lecture	Viva MCQ SAQ	NA	

5.17. Diseases of the female genitalia and breast

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 17.1	KS	K	Cervicitis	Define the term “Cervicitis”	C 1	DK	Lecture	Viva MCQ	MC Q, Viva	OBG
HOMUG Path M. 17.2	KS	K		State the types of Cervicitis	C 1	DK	Lecture	Viva MCQ	MC Q, Viva	

HOMUG Path M. 17.3	KS	K		Define the term Endometritis.	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva	
HOMUG Path M. 17.4	KS	K		Define the term Endometriosis	C 1	DK	Lecture	Viva MCQ	MC Q, Viv a	OBG

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 17.5	KS	KH		Define the term Leiomyomas	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva SAQ	OBG
HOMUG Path M. 17.6	KS	KH		Discuss the morphology of Leiomyoma uterus	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva SAQ	OBG
HOMUG Path M. 17.7	KS	K		Define the term ‘Adenomyosis’	C 1	DK	Lecture	Viva MCQ SAQ	MCQ Viva	OBG
HOMUG Path M. 17.8	KS	KH	Ovarian Tumors.	Classify ovarian tumours	C 1	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva SAQ	OBG
HOMUG Path M. 17.9	KS	K		Discuss the morphology of germ cell tumors of ovary	C 2	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva SAQ	OBG

HOMUG Path M. 17.10	KS	K		Discuss the morphology of serous tumors of ovary	C 2	MK	Lecture	Viva SAQ MCQ	LAQ SAQ MC Q, Viv a	OBG
HOMUG Path M. 17.11	KS	K		Discuss the morphology of mucinous tumors of ovary	C 2	MK	Lecture	Viva MCQ	LAQ SAQ, MC Q, Viv a	OBG
HOMUG Path M. 17.12	KS	KH		Describe the pathology of Fibroadenoma breast	C 2	MK	Lecture	Viva voc e, M CQ	SAQ, MCQ ,	

Sl. No.	Domain of Competency		Miller Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
								SAQ,	Viva voce	
HOMUG Path M. 17.13	KS	K	Tumors of breast	Classify breast tumors as per WHO	C 1	MK	Lecture	Viva MCQ SAQ	LAQ MCQ Viva SAQ	Surgery
HOMUG Path M. 17.14	KS	K		Describe the etiology of Carcinoma Breast	C 1	MK	Lecture	Viva voce, MCQ SAQ	LAQ SAQ, MCQ, Viva voce	Surgery
HOMUG Path M. 17.15	KS	KH		Describe the morphologic features of Carcinoma Breast	C 2	MK	Lecture	Viva voce, MCQ SAQ	LAQ SAQ, MCQ, Viva voce	

5.18. Diseases of the skin and soft tissue

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 18.1	KS	K	Tumors of skin	State the predisposing conditions of Squamous cell carcinoma	C 1	DK	Lecture	Viva voce, MCQ, SAQ	SAQ, MCQ, Viva	
HOMUG Path M. 18.2	KS	KH		Describe the pathology of squamous cell carcinoma of skin	C 2	DK	Lecture	Viva voce, MCQ, SAQ	SAQ, MCQ, Viva voce	
HOMUG Path M. 18.3	KS	K		State the pre-disposing factors for basal cell carcinoma (Rodent ulcer)	C 1	NK	Lecture	Viva voce, MCQ, SAQ	SAQ, MCQ, Viva voce	
HOMUG Path M. 18.4	KS	KH		Describe morphologic features of basal cell carcinoma of skin	C 2	NK	Lecture	Viva voce, MCQ, SAQ	SAQ, MCQ, Viva voce	Practice of medicine, Surgery
HOMUG Path M. 18.5	KS	KH	Soft tissue tumors	Describe morphologic features of lipoma.	C 2	MK	Lecture	Viva voce, MCQ	SAQ, MCQ, Viva voce	

5.19. Diseases of the musculo-skeletal system

Sl. No.	Domain of Competency		Content	SLO	Bloom / Guilbert	Priority	TL MM	Assessment		Integration
								F	S	
HOMUG Path M. 19.1	KS	K	Bone tumors	Classify bone tumors	C 1	DK	Lecture	Viva voce, MCQ	SAQ, MCQ, Viva voce	
HOMUG Path M. 19.2	KS	K	Bone tumors	Discuss morphology of osteosarcoma	C 1	MK	Lecture	Viva voce, MCQ	LAQ, SAQ, MCQ, Viva voce	Practice of medicine
HOMUG Path M. 19.3	KS	K	Osteo - arthritis	Define Osteo Arthritis	C 1	MK	Lecture	Viva voce, MCQ	MC Q, Viva voce	Practice of medicine
HOMUG Path M. 19.4	KS	K	Rheumatoid arthritis	Define rheumatoid arthritis	C 1	MK	Lecture	Viva voce, MCQ	MC Q, Viva voce	Practice of medicine
HOMUG Path M. 19.5	KS	K	Gout	Define Gout	C 1	MK	Lecture	Viva voce, MCQ	MC Q, Viva voce	