

Women Medical College

Department of Medical Education & Research

Abbottabad



Study Guide

General Medicine & Allied

1-5 Year MBBS

1st YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Foundation, Blood, MSK	NIL					
CVS	MEDICINE	Heart failure	Define Heart failure Differentiate between right-sided Heart failure and left-sided heart failure	01	LGF	MCQ
Respiration	MEDICINE	Introduction to Respiratory symptomatology	Enumerate the various symptoms of respiratory disorders	01	LGF	MCQ
		PFT's	Interpret the Pulmonary Function Tests	01	Discussion	MCQ/OSPE
		ARDS	Discuss acute lung injury and its correlation Acute Respiratory Distress Syndrome	01	LGF, Discussion	MCQ/Structured Viva
ARDS	Describe the causes of Acute Respiratory Distress Syndrome					
			Discuss the morphology of Acute Respiratory Distress Syndrome			

2nd YEAR MBBS

MODULE	SUBJECT	TOPIC	LOC	Hours	MITs (Mode of teaching)	Assessments
Neurosciences-1A Module	General medicine	Peripheral neuropathies	Describe the etiology and types of peripheral neuropathies Discuss the clinical presentation and complications of diabetic neuropathies	01	LGF, Discussion	MCQ/Viva
	General medicine	Hemi-section of spinal cord	Describe the clinical features of Brown Sequard syndrome Describe the etiology, clinical features, investigations and management of a patient with paraplegia	01	LGF, Discussion	MCQ/Viva
	General medicine	Stroke	Differentiate between hemorrhagic and ischemic stroke Describe the etiology, clinical features, investigations and prevention of stroke	01	LGF, Discussion	MCQ/Viva
	General medicine	Parkinson's disease	Describe the pathology, clinical features and treatment of Parkinson's disease Differentiate between cerebellar and parkinsonian tremors	01	LGF, Discussion	MCQ/Viva

	General medicine	Epilepsy	<p>Explain the types of epilepsy</p> <p>Describe the investigations and enlist anti-epileptic drugs</p>		LGF, Discussion	MCQ/Viva
		Hydrocephalus	Describe the etiology, pathogenesis and clinical features of hydrocephalus		LGF, Discussion	MCQ/Viva
Neurosciences- 1B module	MEDICINE	Bell's palsy	Describe the clinical features and management of Bell's palsy	01	LGF, Discussion	MCQ/Viva
		Ocular nerves palsies	Describe the clinical features and etiology of 3, 4 and 6th nerve palsies		LGF, Discussion	MCQ/Viva
ENDOCRINE MODULE	MEDICINE	Acromegaly	<p>Describe the pathophysiology, clinical features and investigations of patient with Acromegaly and Gigantism</p> <p>Describe the etiology, clinical features and investigations of a patient with diabetes insipidus</p>	01	LGF, Discussion	MCQ/Viva
		Thyroid disorders	<p>Explain the clinical features of hyperthyroidism</p> <p>Explain the clinical features of hypothyroidism</p>	01	LGF, Discussion	MCQ/Viva

		Diabetes Mellitus	<p>Explain the short-term and long-term complications of Diabetes Mellitus</p> <p>Describe the pathophysiology, clinical features and treatment of Diabetes Mellitus</p>	01	LGF, Discussion	MCQ/Viva
		Cushing's syndrome	Describe the clinical features and complications of Cushing's syndrome	01	LGF, Discussion	MCQ/Viva
		Addison's disease	Describe the clinical features and complications of Addison's disease	01	LGF, Discussion	MCQ/Viva
MODULE RENAL	Clinical (Nephrology / Medicine)	Dialysis	<p>Describe the types, indications and the process of dialysis for kidney disease</p> <p>Describe Types of dialysis - Peritoneal dialysis - Hemodialysis - Hemofiltration - Haemodiafiltration - Intestinal dialysis - indications for dialysis</p> <p>Discuss disorders of acid-base balance, electrolyte abnormalities uremia or fluid overload resulting from acute and chronic renal failure, and intoxication</p> <p>Describe The process of hemodialysis and peritoneal dialysis</p> <p>Describe Dialyzable substances</p>	01	LGF, Discussion	MCQ/Viva

RENAL MODULE		<p>Patient with excessive urination</p>	<p>Discuss the disorders associated with urine concentrating ability</p> <p>Plan a line of investigation and management in renal disorders</p> <p>Disorders of renal concentration ability</p> <p>Comparison of excessive urine volume with increased frequency of micturition</p> <p>Describe the mechanism of secretion and action of ADH</p> <p>Describe Urine concentrating ability of the various parts of the nephron Proximal convoluted tubule</p> <p>Descending limb of loop of Henle Ascending limb of loop of Henle Collecting system</p>	01	LGF, Discussion	MCQ/Viva
		<p>Patient with continuous dribbling of urine</p>	<p>Discuss the causes of urinary incontinence</p> <p>Discuss the significance of radiological investigations in cases of urinary incontinence in children</p> <p>Define and describe Enuresis, its causes and treatment</p> <p>Describe Causes of urinary incontinence</p> <p>Describe the micturition reflex</p> <p>Discuss Tests for investigating urinary incontinence</p>	01	LGF, Discussion	MCQ/Viva

REPRODUCTION MODULE	General Medicine	Male infertility	Describe the etiology and investigations of male infertility Describe normal semen analysis Define oligo/azoospermia	01	LGF, Discussion	MCQ/Viva
Gastrointestinal , Hepatobiliary and Metabolism Module	MEDICINE	GERD and Peptic ulcer	Describe the etiology, clinical features, complications and drug treatment of GERD and peptic ulcer disease	01	LGF, Discussion	MCQ/Viva
		Liver cirrhosis	Describe the etiology, clinical features, complications and treatment options of liver cirrhosis	01	LGF, Discussion	MCQ/Viva
		hyperlipidemia s	Describe the epidemiology, preventive strategies and diseases associated with hyperlipidemias	01	LGF, Discussion	MCQ/Viva

3rd YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
FOUNDATIO N-II MODULE	Family Medicine	History and current structure of general practice	Describe the historical perspectives of general practice Explain the structure of general practice nationally and internationally	02	LGF/ Discussion	MCQ/ Assignment
		Models of healthcare	describe the models of healthcare			
		Essential health service package (levels of health services in KP)	Describe the levels of health services in the province of KP.			
INFECTION AND INFLAMMAT ION MODULE	Family Medicine	Malaria & Hepatitis control program teams	Explain the etiology, clinical features, types, investigations and management of Malaria in family practice Describe the red-flags in a patient with Malaria for referral to specialty care Identify at risk patients of hepatitis and Malaria and offer them screening	02	LGF/ Discussion	MCQ/ Viva/ Assignment
		TORCH Infections	Define TORCH infection Describe the steps of investigations for TORCH infections Describe the preventive strategies for TORCH infections	02	LGF/ Discussion	MCQ/ Assignment/Viv a

			and their complications			
MULTISYST EM -I Module	Medicine	General management of poisons	Describe approach to manage a poisoned patient in accident and emergency department	01	Case discussion	Viva/OSCE
	Family Medicine	Cancer screening	Identify red-flags in patient which need referral for cancer screening Explain the psychosocial impact of disease on patient and their families Describe the indications, rationale and common diseases which require routine cancer screening	02	LGF/Discussion/OPD	MCQ/OSCE/VIVA
BLOOD & IMMUNOLOGY - II MODULE	MEDICINE	Sickle Cell Anemia	Discuss the pathophysiology, investigations and management of Sickle Cell Anemia.	01	LGF/Discussion	MCQ/OSCE/VIVA
		Myeloproliferative Disorders (MPN)	Classify myeloproliferative neoplasms. Discuss the investigations & management steps of CML.	01	LGF/Discussion/OPD	MCQ/OSCE/VIVA
		Platelets (itp)	Describe Clinical features, investigations and management of a patient with Immune Thrombocytopenia (ITP).	01	LGF/Discussion/OPD	MCQ/OSCE/VIVA

MSK -II Module	Medicine	Osteoporosis and Osteomalacia	Describe Osteoporosis and Osteomalacia 1	03	LGF/Discussion/ OPD	MCQ/OSCE/ VIVA
			List common causes and risk factors of Osteoporosis and Osteomalacia			
			Discuss clinical features , differential diagnosis of Osteoporosis and Osteomalacia			
			Enlist the Investigations for patient presenting with Osteoporosis and Osteomalacia			
MSK -II Module		Rheumatoid Arthritis	Describe Rheumatoid Arthritis with its clinical presentation and differential diagnosis.	01	LGF/Discussion/ OPD	MCQ/OSCE/ VIVA
		Ankylosing Spondylitis	Describe Ankylosing Spondylitis with its clinical presentation and differential diagnosis.	01	LGF/Discussion/ OPD	MCQ/OSCE/ VIVA
		Myopathies	Define Myopathy Enlist Myopathies (Hereditary & Acquired Myopathies) Describe the etiology and clinical features of Myopathies Plan investigations for Myopathies	01	LGF/Discussion/ OPD	MCQ/OSCE/ VIVA

	<p align="center">Medicine/Dermatology</p>	<p align="center">Important pathological terms with Clinical presentations</p>	<p>Enlist and explain the clinical presentation of the following skin Lesions:</p> <ul style="list-style-type: none"> • Macule • Papule • Nodule • Plaque • Vesicle • Bulla • Blister • Pustule • Scale • Lichenification • Excoriation • Hyperkeratosis • Parakeratosis • Acanthosis • Dyskeratosis • Acantholysis • Papillomatosis • Lentiginousspongiosis • Urticaria • Pemphigus • Bullous pemphigoid • Warts 	<p align="center">03</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>OSPE Spotter Station/Structured Viva/MCQs</p>	
			<p align="center">Pre-malignant skin conditions</p>	<p>Enlist the pre-malignant skin conditions</p> <p>Explain their differential diagnosis on the basis of clinical presentations</p> <p>Enlist the relevant investigations</p>	<p align="center">01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>OSPE Spotter Station/Structured Viva/MCQs</p>
			<p align="center">Malignant conditions of skin</p>	<p>Enlist the malignant conditions of skin (squamous and basal cell carcinoma)</p> <p>Explain their differential diagnosis on the</p>	<p align="center">01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>OSPE Spotter Station/Structured Viva/MCQs</p>

			<p>basis of clinical presentations</p> <p>Enlist the relevant investigations</p>			
		Nevocellular Nevi	<p>List the types of Nevocellular Nevi and discuss their differential diagnosis on the basis of their clinical presentations.</p> <p>Enlist the relevant investigations</p>	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	OSPE Spotter Station/Structured Viva/MCQs
	Family medicine	Leishmaniasis	<p>Explain the clinical features and management of cutaneous Leishmaniasis in primary healthcare</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	OSPE Spotter Station/Structured Viva/MCQs
CVS-II MODULE	General Medicine/Cardiology	Coronary Heart disease	<p>Discuss CAD risk factors and strategies to reduce them</p> <p>Discuss strategies for primary and secondary prevention of CHD in outpatient setting</p> <p>KMU (IHPER)- Central Curriculum Committee</p> <p>Define chronic stable angina, its clinical signs and symptoms,</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	OSPE Spotter Station/Structured Viva/MCQs

			laboratory findings, imaging techniques for assessment of it and management protocols Discuss coronary vasospasm and angina with normal coronary angiograms			
		Acute coronary syndrome	Define Acute coronary syndrome Explain the spectrum of illness in ACS and relevant management steps Describe the clinical features and steps of the management of Myocardial infarction Describe risk stratification in myocardial infarction	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/
		Hypertrophic cardiomyopathy	Discuss clinical features, imaging protocols, risk stratification and short/long-term management of hypertrophic cardiomyopathy	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/

General Medicine/Cardi ology	Hypertension	<p>Define and classify hypertension</p> <p>Discuss drug treatment protocols for hypertension</p> <p>Describe the risk factors and complications of hypertension</p> <p>Describe the management of hypertensive emergencies and urgencies</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSPE Spotter Station/Structured Viva/</p>
	Heart failure	<p>Enlist and explain causes of heart failure</p> <p>Describe workup and management of heart failure</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSPE Spotter Station/Structured Viva/</p>
	Disorders of heart rate and rhythm	<p>Classify arrhythmias and heart blocks</p> <p>Describe the etiology, ECG findings and management of Atrial fibrillation</p> <p>Discuss types, workup and management of ventricular arrhythmias</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSPE Spotter Station/Structured Viva/</p>

**CVS-II
MODULE**

	Pulmonary embolism	Describe the etiology, clinical features and diagnostic workup of pulmonary embolism Discuss risk stratification and management of pulmonary embolism	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/
	Pulmonary hypertension	Discuss cardiac causes of pulmonary hypertension and outline their management		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/
	Myocarditis	Discuss causes and management of myocarditis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/
	Pericardial diseases	Define and classify pericarditis Discuss clinical findings and treatment of pericarditis Describe the etiology and management of pericardial effusion		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Case-Based Learning (CBL)	MCQs /OSPE Spotter Station/Structured Viva/
	Social determinants of health	Describe the social determinants of health	01	Interactive Lecture/Small Group Discussion (SGD)	MCQs
	Environmental and climate	Explain the role of environmental and climate factors in disease causation		Interactive Lecture/Small Group	MCQs

RESPIRATORY - II MODULE	Family medicine	factors in disease causation			Discussion (SGD)	
		Principles of prevention and health promotion	Describe the Principles of prevention and health promotion Describe, the role of counselling and patient education in health promotion and disease prevention Explain the types of Pulmonary Tuberculosis	01	Interactive Lecture/Small Group Discussion (SGD)	MCQs / VIVA
		Tuberculosis (individuals` identifications , routine contact tracing, and linking to care)	Explain the pathophysiology, clinical features, complications, and management of a patient with pulmonary Tuberculosis Describe the technique of contact tracing in a patient with non- MDR and MDR tuberculosis Describe the indications of specialist referrals in patients with Pulmonary Tuberculosis	02	Interactive Lecture/Small Group Discussion (SGD)	MCQs/VIVA
	Medicine	Respiratory symptoms	Describe approach to a patient of respiratory symptomatology	01	Interactive Lecture/Small Group Discussion (SGD)	MCQs
		Differential diagnosis	Discuss the differential diagnosis of granulomatous inflammation including TB		Interactive Lecture/Small Group Discussion (SGD)	MCQs
		Pulmonary TB	Describe the signs & symptoms, investigations, clinical diagnosis, management protocol &	01	Interactive Lecture/Small Group Discussion (SGD)	MCQs
RESPIRATORY - II MODULE						

			prognosis for TB and MDRTB according to WHO categories.			
		COPD	<p>Describe the epidemiology, patho-physiology and etiology of COPD</p> <p>Explain the clinical presentation of COPD</p> <p>Describe the investigations required for the diagnosis of COPD</p> <p>Describe the management plan of COPD</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
RESPIRATORY - II MODULE	Medicine	Asthma	<p>Describe the epidemiology, pathophysiology, etiology, and contributing factors related to the development of asthma</p> <p>Describe the clinical presentation, diagnosis and treatment of asthma</p> <p>Classify asthma on the basis of clinical presentation into mild, moderate, life threatening and near fatal asthma</p> <p>Explain the stepwise pharmacologic approach for the treatment of asthma status asthmaticus</p> <p>Describe long-term asthma management</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

RESPIRATORY - II MODULE			plan including pharmacological, physical and occupational health education.			
		Respiratory failure	Describe the long term Oxygen therapy in COPD	01	Interactive Lecture	MCQs
		Pneumothorax	Describe the etiology, classification, diagnosis and management of pneumothorax	01	Interactive Lecture	MCQs
		Pleural effusion	Describe the causes of exudates and transudate effusion. Differentiate between exudate and transudate effusion.	01	Interactive Lecture	MCQs
	Family medicine	COPD	<p>Explain the management strategies of a patient with COPD in general practice</p> <p>Describe the strategies for prevention of complications of COPD</p> <p>Describe the methods of home oxygen therapy</p> <p>Perform routine annual health checkup of an Asthmatic and COPD patient under supervision</p> <p>Identify the red-flags in a patient with COPD and appropriately refer to speciality care when required</p>	03	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

4TH YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
RENAL-II MODULE	Medicine	Interpretation of urinalysis	<p>Explain various abnormalities and their interpretation and importance regarding specific diagnoses</p> <p>Highlight the importance of urine abnormalities in other systemic diseases apart from kidney and urogenital tract abnormalities</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Nephrotic syndrome	<p>Define Nephrotic Syndrome.</p> <p>Interpret the criteria for diagnosing Nephrotic Syndrome.</p> <p>Recognize symptoms and signs of Nephrotic Syndrome</p> <p>Identify the complication of nephrotic syndrome</p> <p>Interpret the important investigations</p> <p>Discuss the management plan for Nephrotic syndrome</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

**RENAL-II
MODULE**

<p>Nephritic syndrome</p>	<p>Interpret the criteria for diagnosing Nephritic Syndrome</p> <p>Identify symptoms and signs of Nephritic Syndrome</p> <p>Identify important causes</p> <p>Enumerate important investigations</p> <p>Discuss the treatment plan</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
<p>Electrolytes abnormalities</p> <ul style="list-style-type: none"> • Hyponatrem •Hypernatremia •Hypokalemia •Hyperkalemia 	<p>Define Hyponatremia</p> <p>Discuss Types of Hyponatremias</p> <p>Describe clinical features</p> <p>Enlist/ interpret the diagnostic lab investigations</p> <p>Calculate the sodium deficit and free water deficit</p> <p>Calculate rate of sodium replacement</p> <p>Discuss complications</p> <p>Define Hypernatremia</p> <p>Describe clinical features</p> <p>Enlist diagnostic lab investigations</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	<p>Calculate the sodium deficit and free water deficit Pediatrics</p> <p>Calculate rate of fluid replacement</p> <p>Describe management plan.</p> <p>Define Hypokalaemia</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

**RENAL-II
MODULE**

		<p>Describe clinical features</p> <p>Interpret diagnostic lab investigations</p> <p>Discuss complications.</p> <p>Describe/JUSTIFY management plan</p> <p>Define Hyperkalemia</p> <p>Describe clinical features</p> <p>Enlist diagnostic lab investigations</p> <p>Discuss complications</p> <p>Describe management plan</p>			
Medicine	Acute Kidney Injury (AKI)	<p>Define AKI. Enlist/Interpret the criteria for diagnosing AKI</p> <p>Discuss/ Differentiate prerenal & post renal causes</p> <p>Identify symptoms and signs of AKI</p> <p>Identify /Interpret the important complications</p> <p>Enumerate/DISCUSS important investigations</p> <p>Construct a management plan for a patient with AKI</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	Chronic Kidney Disease (CKD)	<p>Define CKD</p> <p>Enlist criteria for diagnosing CKD</p> <p>Identify important causes</p> <p>Identify symptoms and signs of CKD</p> <p>Identify the important complications</p> <p>Enumerate important</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

**RENAL-II
MODULE**

		investigations Discuss the treatment plan			
		<p>Renal Replacement Therapy (RRT)</p> <p>Define RRT</p> <p>Enlist the different types of RRT</p> <p>Identify/Enumerate important indications of dialysis</p> <p>Identify/Enlist the important complications of dialysis</p> <p>Discuss the Renal transplant</p> <p>Enlist and discuss the types of transplant rejection</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Family medicine	<p>Acute renal presentations- primary care management and Red flags</p>	<p>Explain the etiology, clinical features and presentation of acute renal failure</p> <p>Describe the steps of management of a patient with anuria and oliguria</p> <p>Identify patients that need urgent and proper referral for specialist care in primary health with anuria and acute and chronic renal disease</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Medicine	<p>Autosomal Dominant Polycystic Kidney Disease (ADPKD)</p>	<p>Define ADPKD.</p> <p>Enlist/Interpret the criteria for diagnosing ADPKD. Identify/interpret the genetic causes.</p> <p>Identify/ symptoms and signs of ADPKD.</p> <p>Identify/Interpret the important complications.</p> <p>Enumerate& interpret important investigations.</p> <p>Construct a management plan.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

		Urinary Tract Infections (UTIs)	<p>Define UTIs.</p> <p>Enlist the criteria for diagnosing UTIs.</p> <p>Identify/Differentiate the complicated and uncomplicated UTIs.</p> <p>Identify symptoms and signs of UTIs.</p> <p>Identify the important complications.</p> <p>Enumerate/discuss/interpret/ important investigations.</p> <p>Construct a management plan for a patient with UTI.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
NEUROSCIENCES-II MODULE	General Medicine	Alzheimer's disease and Dementias	<p>Explain the pathophysiology, clinical features and management of Alzheimer's disease</p> <p>Describe the reversible and irreversible causes of Dementia</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Stroke	<p>Describe the risk factors of stroke</p> <p>Explain the types of strokes</p> <p>Describe the clinical features, radiological features, and management of a patient with intracerebral bleed</p> <p>Describe the clinical features, radiological</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

**NEUROSCIENCES-II
MODULE**

		features, and management of a patient with stroke due to an infarction			
General Medicine	Seizures	<p>Define seizures</p> <p>Differentiate between a seizure and syncope</p> <p>Classify epilepsy</p> <p>Explain the pathophysiology, clinical features, risk factors, investigations and treatment of Tonic-Clonic epilepsy</p> <p>Explain the pathophysiology, clinical features, investigations and treatment of absence seizures</p> <p>Explain the pathophysiology, clinical features, investigations and treatment of psychomotor epilepsy</p> <p>Explain the management of a patient with status epilepticus</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Parkinson`s disease	<p>Describe the aetiology, risk factors, morphology and clinical features of Motor Neuron Disease</p> <p>Describe the types, clinical presentation and management of Motor neuron disease</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
General Medicine	Meningitis	Explain the aetiology, pathogenesis, clinical presentation, investigations and management of	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

		Acute pyogenic meningitis Explain the aetiology, pathogenesis, clinical presentation, investigations and management of Tuberculous meningitis		Based Learning (CBL)	
Family medicine	Rabies prophylaxis	Describe the types of wounds inflicted by rabid dog bite Explain the types of active and passive immunisation for Rabies post-exposure prophylaxis Describe the indications of Rabies vaccine and immunoglobulins	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
General Medicine	Multiple sclerosis	Explain the pathophysiology, clinical features and management of Multiple sclerosis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Transverse myelitis	Describe the aetiology, pathophysiology, clinical features and management of Transverse myelitis		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Caries spine	Explain the pathophysiology, clinical features, investigations and		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

			management of Caries spine		Based Learning (CBL)	
	General Medicine	Guillain Barre syndrome	Explain the pathophysiology, clinical features and management of Guillain Barre syndrome	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Neuropathies	Describe the causes, types, distribution and clinical features of different neuropathies		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Myasthenia Gravis	Explain the pathophysiology, clinical features and management of Myasthenia Gravis Neurofibromatosis Describe the clinical features, types and management of Neurofibromatosis		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Renal-II, Endocrine & Reproduction-II MODULE	Medicine	Acromegaly/Gigantism	Explain the etiology, clinical features, investigations, treatment, and complications of Acromegaly/gigantism	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

**Renal-II,
Endocrine &
Reproduction-II
MODULE**

Hyperprolactinemia	Discuss the etiology, clinical features, investigations, and treatment of hyperprolactinemia			
Hypopituitarism/Sheehan's syndrome	Explain the etiology, clinical features, investigations and treatment of Hypopituitarism and Sheehan's syndrome			
Hyperthyroidism including Grave's disease	Discuss the etiology, clinical features, investigations and treatment and prognosis of Hyperthyroidism and Grave's disease Explain the pathogenesis, clinical features, and management of Grave's Ophthalmopathy	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Hypothyroidism	Discuss the types, etiology, clinical features, investigations, and treatment of Hypoparathyroidism	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Thyroiditis	Describe the classification, etiology, clinical features, investigations, and treatment of Thyroiditis			
Multinodular goitre	Discuss the etiology, clinical features, investigations, and management approach to a patient with multinodular goitre	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Thyroid malignancies	Classify thyroid malignant disorders Discuss the pathogenesis, clinical features, investigations, and management of	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

**Renal-II,
Endocrine &
Reproduction-II
MODULE**

		Thyroid malignancies		Based Learning (CBL)		
		Hyperparathyroidism	Discuss the types, etiology, clinical features, investigations, and treatment of Hyperparathyroidism	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Hypoparathyroidism	Discuss the types, etiology, clinical features, investigations, and treatment of Hypoparathyroidism			
Medicine		Diabetes mellitus • Types • Insulin resistance syndromes • Clinical features investigations • Treatment • Complications	Explain the different types of DM Discuss the mechanism presentation, and management of insulin resistance Discuss the clinical features of DM Explain the diagnostic workup of a patient with DM Classify the pharmacological treatment of DM Explain life style modifications in the management Discuss the acute and chronic complications of DM	03	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Hypoglycemic coma	Explain the etiology, clinical features, and management of hypoglycemic coma		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Diabetic ketoacidosis	Explain the precipitating factors, diagnostic work up, and treatment of a patient with diabetic ketoacidosis	01		
		Hyperosmolar non-ketotic diabetic coma	Explain the precipitating factors, diagnostic work up, and treatment of a patient with Hyperosmolar non-ketotic diabetic coma			

	Lactic acidosis	Explain the precipitating factors, diagnostic work up, and treatment of a patient with Lactic acidosis			
	Posterior pituitary gland	Discuss the functions of hormone Vasopressin secreted by the posterior pituitary gland Explain the etiology, clinical features, investigations, and treatment of Diabetes insipidus	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	SIADH	Explain the etiology, and pathogenesis of SIADH secretion			
Medicine	Hypercortisolism and Cushing's syndrome	Explain the etiology, clinical features, diagnostic workup, and management of Hypercortisolism/Cushing's syndrome	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Primary Hyperaldosteronism	Explain the etiology, clinical features, diagnostic workup, and management of Primary Hyperaldosteronism	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Adrenogenital syndrome	Explain the etiology, clinical features, diagnostic workup, and management of Adrenogenital syndrome	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

**Renal-II,
Endocrine &
Reproduction-II
MODULE**

	<p>Adrenal insufficiency • Primary (Acute and Chronic) • Secondary</p>	<p>Classify adrenal insufficiency</p> <p>Explain the etiology, clinical features, investigations, and treatment of primary Addison's disease</p> <p>Explain the etiology, clinical features, investigations, and treatment of pituitary adrenal insufficiency</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	<p>Adrenal neoplasms</p>	<p>Explain the types of adrenal tumors</p> <p>Discuss the clinical presentations, diagnostic workup, and treatment of adrenal tumors</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	<p>Pheochromocytoma</p>	<p>Explain the clinical features, investigations, management, and complications of Pheochromocytoma</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	<p>Gastro-entero-pancreatic neuroendocrine tumors (GEP-NETs) including Carcinoid tumors</p>	<p>Explain the clinical features, investigations, management of GEP NETs/Carcinoid tumors.</p>		<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
<p>Family medicine</p>	<p>Menstrual disorders</p>	<p>Enlist menstrual disorders</p> <p>Explain the etiology, investigations, and management of menstrual disorders in primary care</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

Renal-II, Endocrine & Reproduction-II MODULE						
		Menopause	Explain the clinical features, and management of menopausal symptoms and complications in primary care			
		Contraception	Explain the types of contraception methods Explain the merits and demerits of different contraceptive techniques Describe the complications associated with the use of oral and injectable contraceptives	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Vaginal discharge and STDs	Explain the etiology of vaginal discharge Describe the diagnosis and management of vaginal discharge in primary care Classify Sexually transmitted infections in females Describe the clinical features, investigations, and management of STDs in females in primary care	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/	
GIT & HEPATOBIILIARY -II MODULE	Medicine	Oral Cavity Diseases	Discuss the etiology of stomatitis and Aphthous ulcers Discuss the clinical features of stomatitis and Aphthous ulcers Discuss the investigations of stomatitis and Aphthous ulcers Devise a management plan for stomatitis and Aphthous ulcers	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Esophagus:	Discuss the causes of esophageal motility disorders Discuss the clinical features of esophageal motility disorders	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
1) Esophageal motility disorders	Discuss the relevant investigations of esophageal motility disorders Devise a management plan of esophageal motility disorders			
2) Esophagitis	Discuss the etiology of esophagitis Discuss the clinical features of esophagitis Discuss the appropriate diagnostic testing for esophagitis Devise a management plan for esophagitis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
3) Cardia achalasia	Discuss the etiology, clinical features, investigations, and management of Cardia achalasia	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
4) Gastro Esophageal reflux disease (GERD)	Discuss the risk factors, etiology, clinical features, investigations, complications, and management of GERD		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

GIT &
HEPATOBIILIARY
-II MODULE

Medicine	Gastritis	Explain the types, etiology, clinical features, investigations, management, and complications of Gastritis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Peptic ulcer disease	Explain the types, etiology, clinical features, investigations, management, and complications of Gastritis Describe H.pylori eradication therapy protocols in the treatment of peptic ulcer disease	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Upper GI Bleeding	Explain the etiology, clinical features, investigations, and management of a patient with upper GI bleeding Describe the indications and procedures of pharmacological and endoscopic treatment of variceal bleeding	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Hepatitis infection B virus	Explain the Etiology, pathogenesis, clinical features, investigations, and treatment of Acute viral hepatitis B infection Explain the Etiology, pathogenesis, clinical features, investigations, and treatment of chronic viral hepatitis B infection	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Hepatitis C virus infection	Explain the Etiology, pathogenesis, clinical features, investigations, and treatment of chronic viral hepatitis C infection	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

GIT &
HEPATOBIILIARY
-II MODULE

		<p>Explain the clinical features, investigations, management, and complications of liver cirrhosis</p> <p>Explain the treatment of a patient with hepatic encephalopathy</p>		Based Learning (CBL)	
	Metabolic liver diseases	<p>Discuss the management of a patient with Wilson's disease</p> <p>Discuss the management of a patient with Hemochromatosis</p> <p>Discuss the management of a patient with primary biliary cirrhosis</p> <p>Discuss the management of a patient with autoimmune hepatitis</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Hepatic vein obstruction	Discuss the etiology, clinical features, investigations and management of a patient with hepatic vein obstruction			
	Hepatocellular carcinoma	Explain the etiology, clinical features, investigations, treatment and complications of hepatocellular carcinoma	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Carcinoma of the pancreas	Discuss the risk factors, etiology, clinical features, staging and complications of carcinoma of pancreas			
Family Medicine	Acute and chronic hepatitis	<p>Explain the etiology and clinical features of acute hepatitis</p> <p>Explain the management strategies of acute hepatitis in family practice</p> <p>Explain the aetiology, clinical features, and complications of Chronic hepatitis</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

GIT &
HEPATOBIILIARY
-II MODULE

		Explain the management strategies of chronic hepatitis in family practice 251 Describe the red flags in a patient with acute and chronic hepatitis for referral to specialty care			
Medicine	Intestinal tuberculosis	Discuss the etiology, pathogenesis, clinical features, investigations, treatment, and complications of intestinal tuberculosis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Family medicine	Enteric infections	Classify enteric infections Describe the aetiology, clinical features, investigations, and management of Salmonellosis Describe the red flags in a patient with Salmonella infections for referral to specialty care	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Explain the etiology, and management of acute gastroenteritis Discuss the primary and secondary prevention of acute gastroenteritis in a primary healthcare setting Describe the red flags in a patient with acute gastroenteritis for referral to specialty care	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Medicine	Irritable bowel syndrome	Explain the risk factors, clinical features, and management of irritable bowel syndrome	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

				Based Learning (CBL)	
	Ulcerative colitis	Explain the etiology, pathogenesis, clinical features, complications, and surgical management of Crohn's disease	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Crohn's disease	Explain the etiology, pathogenesis, clinical features, complications, and management of Crohn's disease	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Ano-rectal infections	Classify anorectal infections. Explain the risk factors, clinical features and management of anorectal infections including sexually transmitted infections	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Final YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Foundation-III MODULE	Medicine	End-of-Life and palliative care	Discuss the steps and prerequisites of end of life and palliative care.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Geriatric Care	Explain the concepts of geriatric care and problems associated with it.		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Preoperative evaluation and fitness for anesthesia and surgery	Evaluate a patient for fitness for surgery and anesthesia.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Blood & Immunology-III	Medicine	Anemias	Evaluate a patient with anemia Explain the diagnostic workup of a patient with anemias	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Blood & Immunology- III

			Classify anemias based on history, physical examination and relevant investigations			
			<p>Manage a patient with iron deficiency anemia</p> <p>Manage a patient with hereditary anemias</p> <p>Manage a patient with hemolytic anemias (hereditary and acquired)</p> <p>Manage a patient with anemia resulting from bone marrow failure</p> <p>Take a history from a patient with anemias</p> <p>Perform physical examination of a patient with anemia</p> <p>Perform hematological examination</p> <p>Counsel a patient with different type of anemias</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Blood & Immunology-III

Medicine	Leukopenia	<p>Evaluate a peripheral blood film</p> <p>Explain the diagnostic approach to a patient with Leukopenia</p> <p>Take a history from a patient with leukopenia and aplastic anemia</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	Leukemias	<p>Explain the diagnostic approach to a patient with leukocytosis</p> <p>Classify Leukemias</p> <p>Explain the management of a patient with acute Leukemias</p> <p>Explain the management of a patient with chronic Leukemias</p> <p>Take history and perform physical examination of a patient with leukocytosis</p>	02	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

	Splenomegaly	<p>Classify the causes of splenomegaly</p> <p>Explain the diagnostic approach to a patient with splenomegaly</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	Lymphadenopathy	<p>Classify the causes of generalized lymphadenopathy</p> <p>Explain the diagnostic approach to a patient with generalized lymphadenopathy</p> <p>Classify lymphomas</p> <p>Explain the management of a patient with Lymphoma (Hodgkin's and non-Hodgkin's)</p> <p>Explain tumor lysis syndrome and its management</p> <p>Explain the common adverse effects of chemotherapeutic agents used in hematological malignancies and their management and prevention.</p> <p>Counsel a patient with newly diagnosed hematological malignancy</p>	02	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

	Medicine	Bleeding and clotting disorders	<p>Explain the diagnostic approach to a patient with bleeding disorder</p> <p>Classify hypercoagulable states and their management and prevention of thrombosis</p>	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Musculoskeletal System-III	Medicine	Introduction to arthritides: <ul style="list-style-type: none"> • Classification • Serological tests 	<p>Classify autoimmune diseases of joints based on the pattern of joint involvement</p> <p>A) Peripheral Symmetrical Oligoarticular Monoarticular</p> <p>B) Axial</p>	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		<p>Explain the types, and indications of autoimmune markers in different Rheumatological disorders</p> <p>Describe different modalities of investigations and their indications used in different arthritic disorders</p> <p>Explain the extra-articular manifestations of inflammatory arthritides</p>	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/	

Musculoskeletal System-III

<p>Management of adult arthritides</p>	<p>Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with mono arthritis</p> <p>Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with symmetrical polyarthritis</p> <p>Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with oligoarticular arthritis</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
<p>Management of common arthritic disorders</p>	<p>Discuss the management of patient and complications with Rheumatoid arthritis</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

**Musculoskel
etal System-
III**

		Discuss the management, complications, and prognosis of a patient with SLE	01		
		Explain the management and complications of a patient with Ankylosing spondylitis Discuss the clinical features and diagnosis of Reiter's syndrome, Reactive arthritis and Psoriatic arthritis	01		
		Discuss the management of patient and complications with Osteoarthritis Discuss the management of patient and complications with acute Gout and Gouty Arthritis	01		
		Take history and perform a physical examination of a patient with symmetrical arthritis Affective Counsel a patient with new onset Rheumatoid arthritis.	01		
Medicine	Osteoporosis	Explain the etiology, risk factors, complications, management, and	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/

			prevention of Osteoporosis		Based Learning (CBL)	
	Medicine	Proximal myopathy	Elaborate on the etiology and diagnostic workup of a patient with proximal muscle weakness	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Polymyositis and dermatomyositis	Discuss the pathogenesis, clinical features, investigations, differential diagnosis and management of Polymyositis and Dermatomyositis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Cardiorespiratory Module	Medicine	Approach to a patient with chest pain	Discuss the diagnostic workup and management approach for a patient with chest pain	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
			Take history and perform physical examination of patient with chest pain	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
			Classify IHD Explain the management approach to a patient with	0.5	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Cardiorespiratory Module	Medicine	Ischemic heart diseases	stable angina pectoris			
			Explain the management approach to a patient with unstable angina pectoris	0.5	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
			Explain the management approach to a patient with acute MI.	1		
		Discuss the risk stratification strategies in post-MI patients				
Disorders of Rhythm	Classify arrhythmias and heart block and discuss their ECG abnormalities	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/		
	Explain the diagnostic and management approach to a patient with irregularly irregular pulse	0.5				
	Discuss the management approach to a patient with SVT					
			Discuss the management approach to a patient with	0.5		

Cardiorespiratory Module		Ventricular tachycardia	0.5		
		Explain the management of a patient with different types of heart blocks			
		Counsel a patient with recent onset acute MI			
Medicine (CVS)	Congestive cardiac failure	Explain the types, etiology, clinical features, investigations, prognosis, and management of a patient with CCF.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		classify cardiomyopathies	01		
	Pericarditis and pericardial effusion	Explain the etiology, clinical features, and management of a patient pericarditis and pericardial effusion	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Cardiorespiratory Module

Medicine (Respiratory)	Bronchial asthma (Wheezy chest)	<p>Explain the diagnostic and management approach for a patient with chronic wheezy chest</p> <p>Differentiate between bronchial asthma and cardiac asthma</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	COPD	<p>Explain the diagnostic and management approach for a patient with COPD Interpret Pulmonary Function test results</p> <p>Interpret a report of Arterial blood gases</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	Interstitial lung disease (ILD)	<p>Discuss the types, etiology, clinical and radiological presentation, investigations, and management of a patient with ILD</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>
	Pleural effusion	<p>Explain the diagnostic and management strategies in a patient with pleural effusion</p> <p>Assist in pleural fluid aspiration</p>	01	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/</p>

Cardiorespiratory Module	Medicine (Respiratory)	Pneumothorax	Explain the diagnostic and management strategies in a patient with Pneumothorax	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Pulmonary embolism	Discuss the risk factors diagnostic criteria, complications, and treatment of a patient with suspected pulmonary embolism	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Family medicine	IHD/CCF	Explain the management strategies of a patient with IHD and heart failure in general practice including the psychosocial impact of disease on patient and their families Describe the strategies for prevention of IHD and CCF Identify the red-flags in a patient with IHD/CCF and appropriately refer to	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

		speciality care when required			
Medicine	Bacterial endocarditis	Explain the risk factors, etiology, clinical features, diagnostic criteria, management, and prevention of Bacterial endocarditis.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Pneumonias	Discuss the etiology and classification of pneumonias Explain the etiology, risk factors clinical features, diagnosis, and management of patients with different types of pneumonias. Examine a patient with features of pneumonia	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Medicine	Pulmonary Tuberculosis	Explain the diagnostic workup, management, and complications of a suspected case of pulmonary TB	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Cardiorespirator
y Module

Bronchiectasis	Develop a management algorithm for a patient with bronchiectasis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Lung abscess	Explain the etiology, clinical and radiological features, complications, and management of a patient with lung abscess.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Lung tumors	Classify lung tumors Explain the diagnostic workup and management and complications of a patient with suspected Bronchogenic carcinoma Explain the diagnostic workup and management and complications of a patient with suspected pleural mesothelioma	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Cardiovascular involvement in systemic diseases	Discuss the cardiovascular manifestations of systemic diseases, their clinical features, investigations, prognosis, and relevant management	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Medicine

Cardiorespirator
y Module

		Pulmonary involvement in systemic diseases	Discuss the pulmonary manifestations of systemic diseases, their clinical features, investigations, prognosis, and relevant management	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Family medicine	Acute respiratory presentations-primary care management and Red flags	<p>Explain the approach to a patient with cough or shortness of breath in a primary health care setting.</p> <p>98 Cognitive</p> <p>Discuss the differential diagnosis of a patient with cough or shortness of breath</p> <p>Discuss the investigations for a patient with cough or shortness of breath in a primary health care setting</p> <p>Identify patients that need urgent and proper referral for specialist care</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Medicine	Deep vein thrombosis (DVT)	<p>Discuss the diagnostic algorithm for an elderly patient with a sudden swollen and painful limb.</p> <p>Discuss the diagnosis and management strategies for a patient with DVT.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Cardiorespirator y Module		Coarctation of Aorta	Explain the types, clinical features, investigations, complications, and management of Coarctation of the Aorta.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Systemic Hypertension	Discuss the management approach to a patient who is newly diagnosed hypertensive. Take history from a hypertensive patient Perform a physical examination of a hypertensive patient Counsel a newly diagnosed hypertensive patient	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Cardiorespirator y Module	Family medicine	Hypertension in general practice	Explain the management strategies of a hypertensive patient in general practice including the psychosocial impact of disease on patient and their families. Describe the strategies for	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

			<p>prevention of hypertension and its complications.</p> <p>Identify the red flags in a hypertensive patient and appropriately refer to speciality care when required</p>			
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Renal Module	Medicine/ Nephrology	Investigations of renal diseases	Discuss the biochemical, radiological, hematological, and other specialized investigations and their interpretations in renal diseases.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Approach to a facial swelling	<p>Discuss the diagnostic workup and management approach for a patient with facial swelling of renal origin</p> <p>Take history and perform physical examination of patient with facial swelling</p>			
		Minimal change disease	Explain the diagnostic workup and management and complications of a patient with Minimal change disease.	03	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Post streptococcal Glomerulonephritis	Explain the diagnostic workup and management and complications of a patient with Post-Streptococcal Glomerulonephritis.			

Renal Module		IgA Nephropathy	Explain the diagnostic workup and management and complications of a patient with IgA Nephropathy.				
		Chronic glomerulonephritis	Explain the diagnostic workup and management and complications of a patient with Chronic glomerulonephritis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/	
		Electrolyte disorders	Explain the etiology, clinical features, diagnosis, and treatment of Hyper and Hyponatremia.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/	
			Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypokalemia.				
			Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypophosphatemia.	Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypomagnesemia.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Blood Ph abnormalities	Explain the etiology, clinical features, diagnosis and treatment of Metabolic acidosis and alkalosis and	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-	MCQs /OSCE Station/Structured Viva/	

**Renal
Module**

		its associated compensations.		Based Learning (CBL)	
		Explain the etiology, clinical features, diagnosis and treatment of respiratory acidosis and alkalosis and its associated compensation.			
	Scanty Urine	Discuss the diagnostic workup and management approach for a patient with oliguria and anuria	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
	Uremia	Discuss the pathophysiological mechanisms, clinical manifestations, investigations, and management of a patient with Uremia.			
	Chronic Kidney Injury	Explain the diagnostic workup and management and complications of a patient with Chronic Kidney Injury	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/

Medicine/ Nephrology	Approach to blood in urine (haematuria)	Take a history from a patient presenting with blood in the urine.	0.5	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
		Perform a physical examination of a patient with blood in the urine.	01	Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case
		Discuss the diagnostic workup and management approach for a patient blood in urine.	01	Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case
	Loin pain and dysuria	Discuss the diagnostic workup and management approach for a patient with loin pain and dysuria.	0.5	Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case
	Acute pyelonephritis	Discuss the diagnostic workup and management approach for a patient with acute pyelonephritis.	01	Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case
	Acute and chronic prostatitis	Discuss the diagnostic workup and management approach for a patient with acute and chronic prostatitis	01	Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case

	Medicine/ Nephrology	Sexually transmitted infection	Classify STDs and enlist their treatment options.	01	Interactive Lecture/Small Group Discussion (SGD)	MCQs
			Discuss the management approach of a patient with a new onset lesion on the genitalia.		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Image-Based Learning/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case
Neuroscience s-III	Medicine	Dementia	Discuss the etiology, clinical features, and management of different types of Dementias	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/
Neuroscience s-III			Classify the reversible and irreversible causes of Dementia			
			Explain the pathophysiology and clinical features of a patient with Huntington's disease			
			Discuss the diagnostic work up and management for patients suspected of dementia			
			Perform minimal state examination		Clinical Demonstration Learning/Case-Based Learning (CBL)	OSCE Station/Structured Viva/ Short case/long case

Neuroscience
s-III

		to an ischemic stroke.			
		Discuss the diagnostic workup and management for a patient suspected of Haemorrhagic stroke	01	Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case
	Subarachnoid haemorrhage SAH)	<p>Discuss the diagnostic workup and management for patients suspected of SAH</p> <p>Demonstrate the complete assessment of the patient on the NIH stroke scale under supervision</p> <p>Demonstrate the assessment of a comatose patient on the Glasgow coma scale under supervision</p> <p>Interpret the CT and MRI findings in stroke patients</p> <p>Affective domain Counsel a stroke victim about future prevention and management of complications</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Medicine	Coma	Discuss the management algorithm of a patient with coma		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Discuss the diagnostic work up and management for a patient with fits	01		

Neuroscience
s-III

Epilepsy

Discuss the diagnostic work up and management for a patient with Tonic Clonic epilepsy

Discuss the diagnostic work up and management for a patient with Status Epilepticus

Perform a consultation with a patient with epilepsy under supervision

Write prescriptions for patients with Tonic-Clonic and Petit-mal epilepsy

Counsel a patient with Epilepsy

01

Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)

MCQs /OSCE Station/Structured Viva/ short case/long case

Classify movement disorders

Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)

MCQs /OSCE Station/Structured Viva/ short case/long case

Medicine

Movement Disorders

Discuss the diagnostic workup and management for patients suspected Cerebellar disorders

Discuss the diagnostic and management approach to a patient with Ataxia

01

Neuroscience
s-III

		Discuss the diagnostic and management approach to a patient with Chorea			
	Parkinson`s disease	Discuss the diagnostic criteria, pharmacological, psycho-social, and rehabilitative approaches to the management of a patient with Parkinson`s disease	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Examine a patient with Parkinson`s disease by taking history and performing a physical examination.			
Medicine	Headache	Explain the diagnostic approach to patients with acute and chronic headaches	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Migraine	Explain the types, risk factors, diagnostic approach, management, and prevention of Migraine	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Demonstrate Complete history and examination of patient with migraine			
		Discuss the lifestyle changes preventing migrainous headaches			

Neuroscience
s-III

Meningitis	Classify meningitides	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Differentiate between the clinical features, investigations, CSF findings, radiological findings, and complications in patients with viral, bacterial, and tuberculous meningitis			
	Discuss the pharmacological and surgical management approaches in patients with different types of meningitides			
	Take history and perform relevant physical examination and elicit signs of meningitis in a suspected patient		Clinical Demonstration/ /Case-Based Learning (CBL)	OSCE Station/Structured Viva/ short case/long case
	Interpret a CSF report in a patient with viral, acute pyogenic and tuberculous meningitis		Clinical Demonstration/ /Case-Based Learning (CBL)	OSCE Station/Structured Viva/ short case/long case
	Observe the Lumbar puncture		Clinical Demonstration/ /Case-Based Learning (CBL)	OSCE Station/Structured Viva/ short case/long case
	Counsel a patient and his/her family with Tuberculous meningitis regarding complications, treatments` side		Clinical Demonstration/ /Case-Based Learning (CBL)	OSCE Station/Structured Viva/ short case/long case

		effects and follow ups			
	Encephalitis	Discuss the etiology, pathogenesis, clinical features, investigations, complications, and treatment of Encephalitis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Family Medicine/ General Medicine	Headache	<p>Explain the approach to a patient with Headache in a primary health care setting</p> <p>Identify common red flags in a patient with headache</p> <p>Discuss the investigations for a patient with Headache in a primary health care setting.</p> <p>Identify patients that need urgent and proper referral for specialist care.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Medicine	Multiple Sclerosis	Discuss the diagnostic approach and management of a patient with suspected Multiple Sclerosis	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Examine the lower limbs of a patient with paraplegia			

Neuroscience s-III			Discuss and counsel the pts regarding the changes in the lifestyle of patients with Multiple sclerosis			
		Acquired Neuropathies	Classify acquired neuropathies and discuss their clinical features, investigations, and management	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Approach to lower limbs weakness	Discuss the diagnostic algorithm of a patient with lower limbs weakness	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Multisystem- II	Medicine	Obesity	Classify the types of obesity.	02	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
			Discuss the etiology of obesity.			
			Explain the methods of measuring obesity.			
			Discuss the musculoskeletal, endocrine, cardiovascular, and psychological complications of obesity.			
			Classify the drugs used in the management of obesity and their complications and adverse effects.			

Multisystem-II

Medicine

Approach to a patient with poisoning	Explain the management approach to a patient with poisoning in emergency setup	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Management of a comatose patient with poisoning	Discuss the management approach to a patient who presents in a comatose state in emergency	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
Diagnosis of a patient with poisoning	Diagnose a patient with poisoning	01	Clinical Demonstration/ /Case-Based Learning (CBL)	short case/long case
Common antidotes and general management of poisoning	Discuss the antidotes for common poisons and their management		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Selected poisoning <ul style="list-style-type: none"> •Acetaminophen • Amphetamines and cocaine • Benzodiazepine • Insecticides and anticholinergics •Carbonmonoxide • Ethanol and Methanol • Snake bite 	Discuss the management of a patient with paracetamol poisoning	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Discuss the management of a patient with Amphetamine, cocaine and Ice poisoning	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs

Multisystem-II

		Discuss the management of a patient with benzodiazepine poisoning	03	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Discuss the management of a patient with insecticide and anticholinergic poisoning		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Discuss the management of a patient with ethanol and methanol poisoning		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Discuss the management of a patient with Carbon monoxide (Natural gas) poisoning		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Discuss the management of a patient with snake venom poisoning		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Perform gastric lavage		Skills Lab Demonstration, Simulation-Based Training, Supervised Practice	OSCE/OSPE, Mini Cex Skills Checklist
		Counsel a patient/family with poisoning		Simulation-Based Training,	OSCE/OSPE, Mini Cex Skills Checklist
Medicine	Heat-related disorders	Classify heat-related disorders	LGF, Discussion	MCQS	

Multisystem-II	Hyperthermia	Explain the etiology, pathogenesis, clinical features and management of Hyperthermia and heat stroke Differentiate between hyperthermia and hyperpyrexia	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Hypothermia	Explain the risk factors, complications, and management of hypothermia.	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Drowning	Explain the management of a patient with drowning		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Electrical injuries	Discuss the management of a patient with electrocution		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	High altitude sickness	Discuss the clinical features, management, and prevention of high-altitude sickness.	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Decompression sickness	Discuss the management of a patient with decompression sickness.		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Chromosomal disorders	Classify chromosomal		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Medicine					

Multisystem-II			disorders and give examples	01			
		Single gene defects	Classify single gene disorders and give examples		Interactive Lecture/Small Group Discussion (SGD)/	MCQs	
		Sex linked disorders	Classify sex linked disorders and give examples		Interactive Lecture/Small Group Discussion (SGD)/	MCQs	
		Polygenic inheritance	Classify polygenic inheritance disorders and give examples		Interactive Lecture/Small Group Discussion (SGD)/	MCQs	
		Marfan syndrome	Explain the clinical features and complications of Marfan syndrome		Interactive Lecture/Small Group Discussion (SGD)/	MCQs	
	Medicine	Evaluation of an adult with suspected autoimmune disorder		Discuss the diagnostic approach to a patient who presents with suspected autoimmune disorder	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
				Explain the different serological and immunological investigations used in the diagnosis of autoimmune disorders		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
				Classify and explain the mechanism of action of different			

	pharmacotherapies in the management of autoimmune disorders			
SLE	Explain the clinical features, investigations, management, prognosis and complications of SLE	02	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Discuss the diagnostic criteria for the diagnosis of SLE		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
	Explain the differences between SLE and drug induced lupus		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Antiphospholipid syndrome	Explain the clinical features, investigations, management, prognosis and complications of Antiphospholipid syndrome	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Scleroderma	Explain the clinical features, investigations, management, prognosis, and complications of Scleroderma/Systemic sclerosis	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs

**Multisystem-
II**

Polymyositis and dermatomyositis	Explain the clinical features, investigations, management, prognosis and complications of polymyositis and dermatomyositis	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Sjogren Syndrome	Explain the clinical features, investigations, management, prognosis and complications of Sjogren Syndrome		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Giant cell arteritis and polymyalgia Rehumatica	Explain the clinical features, investigations, management, prognosis and complications of Giant cell arteritis and polymyalgia Rehumatica	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Polyarteritis nodosa	Explain the clinical features, investigations, management, prognosis and complications of Polyarteritis nodosa	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Wegener granulomatosis	Explain the clinical features, investigations, management, prognosis, and complications of	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs

Multisystem- II			Wegener granulomatosis			
		Vasculitides	Classify vasculitides, their clinical features, diagnostic approach, and management	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
			Explain the clinical features, investigations, management, prognosis, and complications of Henoch- SchÖnlein purpura		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
			Explain the clinical features, investigations, management, prognosis, and complications of BehÇet syndrome		Interactive Lecture/Small Group Discussion (SGD)/	MCQs
Endocrine & Reproductio n III	Medicine	Anterior pituitary gland	Discuss the diagnostic approach and management of a patient with tall stature.	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs
		Posterior pituitary gland	Discuss the approach consideration of a patient with polydipsia Explain the diagnostic approach and treatment of a patient with Diabetes insipidus.	01	Interactive Lecture/Small Group Discussion (SGD)/	MCQs

Endocrine & Reproduction III

<p>Thyroid gland disorders</p>	<p>Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/</p>	<p>MCQs</p>	
	<p>Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.</p>				
	<p>Parathyroid gland</p>	<p>Discuss the diagnostic approach, management, and complications of a patient with tetany.</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/ short case/long case</p>
		<p>Take history and perform physical examination of a patient with goitre.</p>			
		<p>Counsel a patient with goitre.</p>			
	<p>Diabetes Mellitus</p>	<p>Explain the diagnostic approach, screening and management of a patient with suspected Diabetes Mellitus.</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/</p>	<p>MCQs</p>
<p>Elaborate the pharmacological and non-pharmacological management strategies in the management of type-1 and type 2 DM.</p>		<p>01</p>			

Endocrine & Reproduction III		Elaborate the acute and chronic complications of DM and their management	01		
		<p>Discuss the diagnostic approach, management, and complications of hyperglycaemic syndromes in Diabetic patients.</p> <p>Explain the diagnosis, management and complications of a diabetic patient presenting with hypoglycaemias.</p> <p>Take history and perform physical examination of a patient with Type 2 DM.</p> <p>Counsel a newly diagnosed patient with DM.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Family medicine	Diabetes mellitus-general practice management	<p>Explain the management strategies of a diabetic patient in general practice including the psychosocial impact of disease on patient and their families.</p> <p>Describe the strategies for prevention of diabetes mellitus and its complications.</p> <p>Identify the red flags in a diabetic patient and appropriately refer to speciality care when required.</p>		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)

Endocrine & Reproduction III

Medicine	Cushing`s syndrome	Discuss the diagnosis, management, and complications of a patient with suspected Cushing`s syndrome.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Explain the Dexamethasone suppression test in terms of its indications and interpretation. Explain the protocol of steroids withdrawal in a patient with steroids abuse. Take history and perform physical examination of a patient with Cushing`s syndrome.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Addison`s disease	Discuss the diagnosis, management, and complications of a patient with suspected Addison`s disease (both primary and secondary). Explain the concept of steroids replacement in terms of its indications and precautions.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Obesity	Discuss the etiology, complications, medical and surgical approaches to the management of obesity. Take history and perform physical examination of a	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case

			<p>patient with morbid obesity.</p> <p>Counsel a morbidly obese patient regarding the complications and lifestyle management.</p>			
	<p>Family medicine / Obstetrics</p>	<p>Hypertensive disorders in pregnancy</p>	<p>Classify hypertension in pregnancy and disorders of hypertension in pregnancy.</p> <p>Discuss the diagnostic approach, management, complications and prevention of Pre-eclampsia and Eclampsia</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/ short case/long case</p>
		<p>Diabetes mellitus and pregnancy</p>	<p>Explain the management of a pregnant lady with gestational DM and overt DM</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/ short case/long case</p>
<p>GIT Module</p>	<p>Medicine</p>	<p>Upper GI bleeding</p>	<p>Explain the diagnostic workup and management and complications of a patient with Upper GI bleeding</p> <p>Take history and perform a physical examination of a patient with an upper GI bleed.</p> <p>Observe upper GI endoscopy</p> <p>Observe NG tube insertion.</p>	<p>01</p>	<p>Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)</p>	<p>MCQs /OSCE Station/Structured Viva/ short case/long case</p>

GIT Module		Investigations of liver diseases	<p>Elaborate on the investigations used for the diagnosis of hepatobiliary disorders and their interpretations.</p> <p>Take history and perform physical examination of a patient with liver cirrhosis.</p> <p>Observe Ascitic fluid paracentesis.</p> <p>Interpret Ascitic fluid report.</p> <p>Counsel a patient with Liver cirrhosis due to Hepatitis B/C.</p>	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Acute fulminant hepatitis and acute liver failure	Discuss the diagnostic approach and management of a patient with suspected acute fulminant hepatitis/acute liver failure.	01	Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
		Hepatic encephalopathy	<p>Explain the grading system, etiology, diagnostic approach, management, and prevention of hepatic encephalopathy.</p> <p>Elicit Asterixis/ hepatic flap.</p>		Interactive Lecture/Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
	Family medicine / Medicine	Approach to a patient with Abdominal Pain in a primary health care	Explain the approach, differential diagnosis, investigations, initial management, and indications for referral of a patient with Abdominal Pain in a primary health care setting.	01	Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case

	Medicine	Approach to a patient bleeding Per rectum	Discuss the diagnostic workup and management approach for a patient with bleeding per rectum.	Small Group Discussion (SGD)/Clinical Demonstration/ /Case-Based Learning (CBL)	MCQs /OSCE Station/Structured Viva/ short case/long case
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