Study Guide Medicine

2023-2024

Table of Contents

Introduction

Department of Medicine is the backbone of any teaching hospital. Department has more than 75 beds and consists of two independent units. We also offer the best services to the patients who are admitted in the inpatients department and also to those who visit our outpatient department. The department of medicine has different sections like cardiology, pulmonology and gastroenterology, nephrology. In Cardiology section we offer echocardiography, ETT, cardiac monitoring, defibrillation and other related services. Pulmonology section offers critical care, pulmonary functions test, and bronchoscopy. Nephrology section offers heamodialysis. Arterial blood gasses are done in the pathology department and facilities of X-Ray's, ultrasonography, Doppler studies thorough the sister department of radiology. In the gastroenterology section, gastroscopy and colonoscopy are performed along with other associated procedures. We really intend to serve the mankind in a much better way. Department of medicine is going to be the center of excellence in South Punjab region. Development of department of medicine at Bakhtawar amin trust teaching hospital is really a blessing for the patients in the catchment area of this hospital because they are socio economically deprived people.

The department has faculty including professors, associate professors, assistant professors, senior registrars, residents and medical officers. In the department students come from third year mbbs to final year mbbs for clinical rotation and there is a well organized teaching programme according to their curriculum. The university exam of subject of medicine is conducted in final year. Students are taught in OPD and on the bed sides on admitted patients.

During 3rd year mbbs, students are taught history taking, clinical examination and patient communication. During 4th year mbbs students are taught how to interprate clinical findings to make a differential diagnosis. For final year

students the plan is to enable students to make diagnosis and have treatment plan on basis of structured history and examination and to learn various skills and improve thier attitude. During each year the assessments of students are carried frequently through various tools including MCQ/SEQ/OSPE/SHORT CASE/LONG CASE.

Mission

Our mission is to provide evidence and quality based knowledge, clinical skills and attitude to the students in order to become a knowledgeable, skillful, empathetic medical practitioner so that they can serve the ailing humanity in the best way

Objectives

- Introduce and educate students to the basic principles, knowledge and techniques in medicine
- To educate and train students in getting history of various medical cases in opd and ipd
- To educate and train students in doing clinical examination of various medical cases in opd and ipd
- To educate students in making a differential diagnosis and provisional diagnosis of various medical cases in opd and ipd
- To educate students about the management of medical emergencies in medicine
- Educate students in basic life support and advanced cardiac life support
- Familiarize students with the procedures most commonly done in department of medicine
- Educate students on medico-legal implications, the appropriate use of professional ethics, attitudes, communication, and problem solving skills.

Exit Outcomes of Medicine

At the end of session, students should,

- Be capable of evaluating and managing patients with a broad range of medical problems
- Have a basic understanding of the pathophysiology and natural history of medical disease states and familiarity with basic medical procedure.
- Have a comprehensive knowledge of medical disease and an appropriate application of this knowledge to the clinical situation.
- Be familiar with current medical literature.
- Demonstrate technical skill, clinical judgment and a firm grasp of medical knowledge

BAKHTAWAR AMIN TRUST TEACHING HOSPITAL

ORGANOGRAM
DEPARTMENT OF MEDICINE

HOD
Professor Dr Muhammad Ali (FCPS)

Associate Professors

Dr Talha Rasheeq (FCPS)
Associate Professor
MBBS Incharge

Dr Muhammad Tahir (FCPS)
Associate Professor
BDS Incharge

Assistant Professors

Dr Nadeem Ullah (FCPS)
Assistant Professor

Dr Shahid (FCPS)
Assistant Professor
DPT Incharge

Senior Registrar

Dr Amina Gardezi (FCPS)
Senior Registrar
AHS Incharge

Dr Huzaifa (FCPS) Senior Registrar

Dr Rumaisa (FCPS)
Senior Registrar

PG/MO

Dr Hamd (MBBS)

Dr Noor ul Huda (MBBS)

Dr Ashraf (MBBS)

Dr Rameesha (MBBS)

Dr Marookh (MBBS)

House Officers

COURSE SYLLABUS

According to UHS

MEDICINE

Distribution of subjects

Paper-I All except Paper-II

Paper-II will include:

1. Infectious Diseases
2. Endocrinology including Diabetes
3. Metabolic Diseases
4. Genitourinary System
5. Immunology
6. Genetics
7. Oncology
8. Water and Electrolyte Balance
9. Acid and Base Balance
10. Psychiatry
11. Dermatology

Syllabus of Medicine (MBBS 3RD YEAR)

BASED ON UHS SYLLABUS

Clinical Teaching.

- History taking in general,
- GPE, Pallor, Cyanosis, Jaundice, Clubbing and Koilonychia. Thyroid, Lymph nodes, Dehydration, Nutrition, Decubitus, Edema.Pulse.
- Examination of Blood Pressure and JVP.
- History taking in GIT – Vomiting, Diarrhea, Pain Abdomen, Constipation,Hematemesis, Melena, Dyspepsia, Distension.
- Examination of GIT – Inspection, Palpation.Percussion, Auscultation.
- History taking in Respiratory system, Shortness of Breath Chest pain, wheezing.
- Inspection, Palpation, Percussion, Auscultation front of chest.
- Inspection, Palpation, Percussion, Auscultation back of chest.
- History taking in CVS.
- GPE in CVS – Clubbing, Koilonychia, Osler's nodes, Splinter Hemorrhages, Cyanosis. Pulse, JVP, Blood pressure.
- Inspection, Palpation of pericardium.
- Percussion, Auscultation of pericardium – Mitral, Tricuspid, Aortic. Pulmonary areas.
- History taking in CNS.

- Higher Mental Functions – level of consciousness, Behavior, Speech, Memory.
- Examination of cranial nerves – I, II, III, IV nerves.V, VI, VII, VIII nerves. IX, X, XI, XII nerves.
- Examination of Motor system.
- Examination of sensory system – Crude touch, pain, Temperature. Fine touch, Pressure, Vibration, Joint position, Cortical sensations.Two point localization, Two point discrimination.
- Reflexes.
- Examination of Cerebellar system.

Procedures During Clinical Teaching (observe)

- ECG taking
- O2 Therapy
- Nebulisation
- Endotracheal suction
- Lumber puncture
- NG tube passing and feeding
- Insertion of Foleys catheter
- IV lines, Fluids, Injections IV, IM, SC, Intradermal

Knowledge of Systems and the Diseases:

INFECTIOUS DISEASE

Clinical syndromes.

Sepsis and septic shock,

meningococcaemia

Acute infectious diarrhoeal diseases and bacterial food poisoning.

Hospital acquired infections.

Common disease syndromes caused by the following bacteria and their drug therapy.

Pneumococci

Staphylococci.

Streptococci.

Hemophilis influenzae.

Shigella.

Gonococci.

Pseudomonas.

o **Following diseases in detail.**

Tetanus.

Enteric fever/salmonellosis.

Cholera.

Tuberculosis.

Leprosy. Amoebiasis/giardiasis/trichomoniasis.

Malaria.

AIDS.

Rabies.

Infectious mononucleosis.

o Helminthic infestations

Ascariasis

Hookworm

Whipworm (trichuriasis)

Threadworm (entrobiasis)

Taenia (tapeworm)

Hydatid diseases

HEMATOLOGY (BLOOD) AND ONCOLOGY

Anaemias.

• **Classification**

• Iron deficiency

• Megaloblastic

- oB-12 deficiency
- oFolic acid deficiency

• Anaemia of chronic disorder

• Haemolyticanaemia

- Hereditary
- OAcquired
  - oIntra-corpuscular
  - oExtra-corpuscular

• Aplastic anemia

Haemoglobinopathies.

• Sickle cell syndromes

• Thalassaemias

Myeloproliferative diseases.

• Chronic myeloid leukemia (CML)

• Polycythemia vera

• Myelofibrosis

• Essential thrombocytosis

Leukemias.

• Acute

• Chronic

Lymphomos

• Non-Hodgkin’s

• Hodgkin’s

Blood groups and blood transfusion.

Bone marrow transplantation.

Disorders of haemostasis.

• Thrombocytopenia

• Idiopathic thrombocytopenic purpura (ITP)

• Von Willebrand's disease.

• Vessel wall disorders. •

Disorders of coagulation.

• Haemophilia

• Vitamin K deficiency.

• Disseminated intravascular coagulation (DIC)

. **Anticoagulants Therapy**

• Heparin

• Oral (warfarin etc.)

• Vit. K infusion

• Antiplatelet drugs

DERMATOLOGY

Anatomy, physiology of skin related to clinical dermatology

• Infestations: scabies, pediculosis

. • Bacterial and mycobacterial infections

- Fungal and viral diseases.
- Acne vulgaris
- Eczemas.
- Psoriasis
- Lichen planus
- Bullous disorders.
- Pigmentary disorders
- Disorders of nails.
- Disorders of hairs.
- Sexually transmitted diseases.

Syllabus of Medicine (MBBS 4TH YEAR) BASED ON UHS SYLLABUS

Clinical Teaching.

- History taking in general,
- GPE, Pallor, Cyanosis, Jaundice, Clubbing and Koilonychia. Osler's nodes, Splinter Hemorrhages Thyroid, Lymph nodes, Dehydration, Nutrition, Edema,.Pulse, Examination of Rheumatoid hands.
- Examination of Blood Pressure and JVP.
- Symptomatic approach to swelling over feet, fever, headache, anorexia, weight loss, weight gain, lymphadenopathy, spleenomegaly, bleeding tendency.
- Symptomatic approach in GIT Vomiting, Diarrhea, Pain Abdomen, Constipation,Hematemesis, Melena, Dyspepsia, Distension, bleeding per rectum jaundice, dysphagia, diarrhea, oligouria&anuria,hematuria .
- Examination of GIT – Inspection, Palpation,.Percussion, Auscultation.
- Symptomatic approach in Respiratory system, Shortness of Breath, Chest pain, wheezing,cough, heamoptysis.
- Inspection, Palpation, Percussion, Auscultation front of chest.
- Inspection, Palpation, Percussion, Auscultation back of chest..
- Symptomatic approach in CVS palpitations, chest pain, shortness of breath
- Inspection, Palpation of precardium.
- Percussion, Auscultation of precardium – Mitral, Tricuspid, Aortic. Pulmonary areas.

- Symptomatic approach in CNS coma,vertigo, fits, weakness, paralysis, movement disorders, gait abnormalities
- Higher Mental Functions – level of consciousness, Behavior, Speech, Memory.
- Examination of cranial nerves – I, II, III, IV nerves.V, VI, VII, VIII nerves. IX, X, XI, XII nerves.
- Examination of Motor system.
- Examination of sensory system – Crude touch, pain, Temperature. Fine touch, Pressure, Vibration, Joint position, Cortical sensations.Two point localization, Two point discrimination.
- Reflexes.
- Examination of Cerebellar system.

Procedures During Clinical Teaching (Assist)

- ECG taking and Interpretation
- O2 Therapy
- Nebulisation
- Endotracheal suction
- Lumber puncture
- NG tube passing and feeding
- Insertion of Foleys catheter
- IV lines, Fluids, Injections IV, IM, SC, Intradermal

Knowledge of Systems and the Diseases;

Nephrology (Kidney and Urinary system)

• Acute renal failure.

• Chronic renal failure

• Nephrotic syndrome.

• Nephritic syndrome.

• Urinary tract infections

- Infections of the kidneys
- Infections of the lower urinary tract

• **Inflammatory lesions of the kidneys**

• **Introduction to dialysis & renal transplant**

• **Drugs causing renal disease (brief).**

- Analgesic nephropathy.
- Lead, uric acid,
- hypercalcemia,
- radiation & hypersensitivity *f* Nephropathy.
- Drugs contra indicated in renal insufficiency
- Drugs to be used with caution in renal disease.

• **Polycystic kidneys.**

• **Renal vascular disorders**

- Renal artery stenosis
- Renal vein thrombosis

 Tumours

• Hemolytic uremic syndrome. **• Prostatic diseases**

Alimentary system

Oral cavity

- Infections and inflammatory disorders
- Benign and malignant diseases

o **Esophagus.**

- Dysphagia with special reference to
- Ca oesophagus
- GERD
- Achalasia
- Candiasis of oral cavity and oesophagus

o **Stomach**

- Gastritis.
- Peptic ulcer

o **Intestines**

o Malabsorption syndromes.

- Tropical sprue
- Coeliac disease

o **Inflammatory bowel diseases**.

- Ulcerative colitis
- Crohn's disease

o **Irritable bowel syndrome (IBS).**

Acute and chronic pancreatitis

Syllabus of Medicine (MBBS FINAL YEAR) BASED ON UHS SYLLABUS

Clinical Teaching

Case Evaluations

CASE EVALAUTION of

- Systemic hypertension • Ischaemic heart diseases • Congestive cardiac failure • Valvular diseases and infective endocarditis
- Bronchial asthma • Pleural effusion • Pneumonia • Hemoptysis • Pulmonary tuberculosis • Chronic obstructive airway disease • Type-I and type-II respiratory failure • Bronchogenic carcinoma
- Leprosy • Syphilitic lesions (chancre, secondary syphilis, gumma) • Tinea (corporis, capitis, inguinale, unguam) • Candida (oral, skin) • Scabies • Lice • Mosquito bite • Acute & chronic eczema • Lesions of small pox, chicken pox, herpes simplex, herpes zoster • SLE. • Psoriasis • Lichen planus • Impetigo contagiosum • Moluscum contagiosum • Acne vulgaris
- Cerebrovascular accident • Paraplegia • Polyneuropathy • Muscular dystrophies and Motor neuron disease • Parkinsonism • Meningitis • Tetanus • Hemiplegia • Facial Palsy
- Acid peptic disease • Tender hepatomegaly • Hepatosplenomegaly • Jaundice • Chronic liver disease • Acute and chronic diarrhoea • Variceal bleeding and peptic ulcer bleeding. • Abdominal Koch's infection
- Nephrotic syndrome • Nephritic syndrome • Acute renal failure • Chronic renal failure
- Diabetes mellitus • Thyroid diseases • Cushing's disease • Infertility and common reproductive disorders
- Rheumatoid arthritis • Osteoarthritis • Multiple Myeloma • SLE etc.

- Malaria • Typhoid fever • Acute diarrhoeal diseases • Acute / chronic respiratory tract infections • Generalized septicemia etc.
- Anaemias • Bleeding disorders • Myeloproliferative or lymphoproliferative diseases
- Anxiety • Depression • Schizophrenia • Manic depressive psychosis • Phobias • Eating disorders

Procedures

- Assist and Perform Ng tube insertion and feeding techniques,
- Assist and Perform urinary cathetrisations,
- Assist and perform blood transfusions,
- Assist and Perform ECG taking and reading Interpration of ECG Normal, Acute MI, Ischemia, complete heart block, APC, VPC, SVT, VT etc.
- Should observe, learn and even may assist electroversion therapy (DC shock) with indications, complications etc.
- Observe Echo and should recognize chambers and valves on echo print.
- Observe pericardial effusion aspiration.
- Should learn thrombolytic therapy, heparinisation/anticoagulation therapy and control, antiplatelet therapy, nitrates infusion, digitalization, treatment of acute pulmonary edema,
- Cardiac monitoring.
- Basics of ETT.
- How to start O2 therapy, indications, complications.
    - Learn pleural aspiration and assist
    - Pleural biopsy, observe
    - FNA biopsy, observe
    - Under water seas aspiration, observe/assist
    - Management of respiratory failure

- Observe bronchoscopy

- CxrInterpratation,
- Assist and Perform iv/Iminj techniques,
- Assist and Perform nebulization,
- Assist and observe endotracheal tube placement, suction techniques,
- Perform and maintain IT/OP record
- Assist for endoscopies (upper and lower GI endoscopy)
- Assist & learn/observe Lumber Puncture
- Scraping for fungus
- Use of magnifying glass
- Observe skin biopsy
- Use of Wood's lamp
- Observe aspiration of fluids from joints (knee)
- Observe bone marrow aspiration/terphine
- Learn and observe peritoneal and hemodialysis
- Observe I/V urogram

Knowledge of Systems and the Diseases;

Cardiology

- **Rheumatic fever and infective endocarditis.**
- **Valvular heart diseases**.

  Mitral valve • Aortic valve

- **Ischaemic heart disease**.

  Angina • Myocardial infarction

- **Cardiac arrhythmias**

  Atrial fibrillation • Ventricular tachycardia • Premature atrial and ventricular beats.

- **Heart failure**.

  Left ventricular failure. • Congestive cardiac failure. • Cor pulmonale.
- **Congenital heart diseases (brief).**

  Cyanotic/acyanotic heart diseases. • Fallot's tetralogy • Atrial septal defect • Ventricular septal defect • Patent ductus arteriosus
- **Cardiomyopathies**
- **Pericardial diseases**.

  Constrictive pericarditis • Pericardial diseases • Pericardial effusion
- **Atherosclerosis/arteriosclerosis.**

  Hypertension.
- **Peripheral vascular disease.**

  Symptoms and signs • Arteriosclerosis • Acute & chronic ischaemia of the leg • Aneurysms • Buerger's disease • Raynaud's disease • variocose veins • Venous thrombosis
- **Investigations**. • Electrocardiography, Xray chest, Echocardiography, Thallium Scan, Stress Testing, Holter And Angiography Etc.

Pulmonology

- **Asthma.**

- **Environmental lung diseases/occupational**.

• Asbestosis • Silicosis • Bagassosis • Pneumoconiosis • Byssinosis • Farmer's lung

• Pneumonia

• Community acquired • Nosocomial • Lobar and bronchopneumonia

• Adult respiratory distress syndrome

• Acute respiratory failure

• Mechanical ventilation.

• Bronchiectasis.

• Chronic obstructive airway diseases.

• Chronic bronchitis • Emphysema • Interstitial lung diseases

. **• Pulmonary thromboembolism • Acute corpulmonale.**

• Type-I and type-II respiratory failure

• Pleural effusion.

• Pneumothorax.

• Tuberculosis

• Tumors of the lung

• Disorders of chest wall and pleura

• Chest trauma

• Deformities of the rib cage

• Dry pleurisy, pleural effusion, empyema, pneumothorax.

• Basics of pulmonary function tests. • Imaging in pulmonary diseases/investigations

Hepatology

o Ascites.

o Jaundice.

o Congenital hyperbilirubinaemia o Gilbert syndrome o Dubin Johnson syndrome o Rotor syndromes o Haemolytic o Obstructive o Hepatitis o Viral, acute and chronic o Toxic o Drugs

o Auto immune hepatitis.

o Cirrhosis of liver.

o Hepatic encephalopathy.

o Carcinoma liver and transplant..

o Upper GI bleeding, lower GI bleeding

o Drugs contraindicated in liver diseases

Neurology & Central Nervous system

Infections and inflammatory lesions

Meningitis • Bacterial. • Tuberculous. • Viral etc. Brain abscess Encephalitis

Hydrocephalus

Epilepsy and other convulsive disorders

Cerebrovascular diseases (stroke).

• Ischemic • Embolism • Infarction • Haemorrhage • Intra-cerebral • Subarachnoid

Dementia and Alzheimer's disease.

Parkinson's disease and other movement disorders

Motor neuron disease.

Multiple sclerosis.

Cranial nerve disorders.

• Transient mono-ocular blindness (amaurosis fugax). • Trigeminal neuralgia. • Facial palsy (Bell's) • Vertigo, nystagmus

Spinal cord disorders

. • Spinal cord compression • Hemiplegia, paraplegia, quadriplegia • Myelitis. • Spondylosis. • Syringomyelia and syringobulbia.

Peripheral nerve disorders

. • Peripheral polyneuropathy • Gullian Barry syndrome • Mononeuritis multiplex.

Space occupying lesions of brain and spinal cord

Muscular dystrophies

Myopathies,

Myasthenia gravis

Rheumatology

Osteoarthritis

o Osteoporosis

o Rheumatoid arthiritis and related arthropathies

o Paget's disease of the bone

o Osteopetrosis (marble bone disease)

o Multiple myeloma

o Multi-System Immunological Diseases

o Systemic lupus erythematosis (SLE)

o Serum sickness o Systemic sclerosis (scleroderma)

o Mixed connective tissue diseases (brief)

o Sjogren's syndrome (brief)

o Ankylosing spondylitis

o Bechet's syndrome (brief)

o Vasculitis syndromes (brief).

o Anaphylactoid purpura o Polyarteritis nodosa o Hpersensitivity vasculitis o Wegner's granulomatosis o Temporal arteritis o Takayasu's arteritis o Thromboangitis obliterans (Burger's disease) **o Sarcoidosis (brief).**

Endocrinology

Anterior pituitary. Growth hormone disorders o Acromegaly o Gigantism. o Short stature *ƒ* Infertility o Diseases of hypothalamus and posterior pituitary. Empty sellasyndrome Diabetes insipidus Syndrome of inappropriate ADH secretion (SIADH).

o **Thyroid gland**. Hyperthyroidism (thyrotoxicosis) Hypothyroidism (myxedema, cretinism) *ƒ* Inflammatory lesions Benign and malignant tumors

o **Adrenal Gland**. Cushing Syndrome Aldosteronism Primary/Secondary. Hirsutism. Addison's disease Acute Addisonian crisis Inflammatory lesions Adrenocortical tumors including Pheochromocytoma

o **Endocrine Pancreas Diabetes mellitus** and hypoglycaemic states Other associated endocrine disorders

o **Testes *f* Sexual precocity** Heterosexual precocity Gynaecomastia InflammationsTumours

o **Multiple endocrine neoplasia Type I & Type II**

Metabolic disorders

Hyperlipidemia *f* Hemochromatosis Porphyrias Wilson's disease Gout and hypercalcemia Storage diseases. Lipid. • Leukodystrophies • Niemann pick disease. • Gaucher's disease. Glycogen. • Fabry's disease. Hereditary connective tissue disorders Osteogenesis imperfecta. Ehler'sdanlos syndrome. Chondrodysplasias. Marfan syndrome. Alport syndrome. Disorders of amino acid metabolism and storage Homocystinuria. Alkaptonuria. Hartnup disease. Renal glycosuria

Miscellaneous & Emergencies

Heat stroke • Snake bite • Electric shock • Poisoning

Psychiatry

- Mood disorders. • Major depressive episodes • Unipolar • Bipolar • Dysthymic • Atypical • Maniac episodes • Anxiety disorders. • Acute anxiety states • Panic disorders • Generalized anxiety disorders • Psychic Traumatic disorders • Obsessive-compulsive disorders • Phobic disorders • Schizophrenia. • Alcoholism. • Addiction. • Psychosexual disorders in men and women.

Learning Objectives

Department of ……Medicine……

Subject ……Medicine…….. Class …Third year MBBS……..

Head of department Prof Dr Muhammad Ali

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
1 History Taking and Clinical Examination in Medicine	Introduction to History Taking in General	Small Group Discussions	Take history of the patient	LONG CASE	WARD	KNOWLEDGE/SKILL/ ATTITUDE
	How to perform General physical Examinaation in Medicine	Small Group Discussions	1) understand what is general physical examination 2) peform general physical examination 3) Interprate abnormal findings	LONG CASE /SHORT CASE	WARD	KNOWLEDGE/SKILL/ ATTITUDE
	Examination of Thyroid Gland	Small Group Discussions	1)Understand and Perform inspection, palpation,percussion & auscultation of thyroid gland 2) Interprate abnormal findings	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
	How to take Blood pressure	Small Group Discussions	1)Under stand and Perform blood pressure check up 2) Interprarte blood pressure readings	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
	Examination of Jvp	Small Group Discussions	1)Understand and perform JVP examination 2) interprate causes of raised JVP	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
	History taking in GIT	Small Group Discussions	Take history of patients with Vomiting, Diarrhea,	LONG CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE

		Pain Abdomen,Constipation. Hematemesis, Melena, Dyspepsia, Distension.			
Examination of GIT – Inspection, Palpation. Percussion, Auscultation.	Small Group Discussions	1)Understand and perform examination of Git, 2)Interprate abnormal findings	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
History taking in Respiratory system	Small Group Discussions	Take history of patients with Shortness of Breath Chest pain, wheezing, cough sputum	LONG CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of Respiratory System – Inspection, Palpation. Percussion, Auscultation.	Small Group Discussions	1)Understand and perform examination of Respiratory System 2)Interprate abnormal findings of examination	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
History taking in CVS	Small Group Discussions	Take history of patients with Shortness of Breath Chest pain, Edema, palpitations,Syncope	LONG CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
GPE in CVS	Small Group Discussions	Understand and perform GPE of CVS including Clubbing, Koilonychia, Osler's nodes, Splinter Hemorrhages, Cyanosis. Pulse, JVP, Blood pressure.	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of CVS Inspection, Palpation. Percussion, Auscultation.	Small group discussion	1)Understand and perform examination of Respiratory System/ Inspection, Palpation. Percussion, Auscultation of precordium 2)Interprate abnormal findings of examination	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE

History taking in CNS	Small Group Discussions	Take history of patients with syncope, fits, unconsciousness, weakness	LONG CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Higher Mental Functions	Small Group Discussions	1)Understand and Interprate GCS, Speech Abnormalities, memory and behavioural changes 2)Interprate abnormal findings of examination	LONG CASE/SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of cranial nerves	Small Group Discussions	1)Perform cranial nerve examination methods (CN 1 to CN12) 2)Understand differences of UMN & LMN CN7 palsy 3) Interprate abnormal findings of examination of CN	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of Motor system		1) Understand, differentiate between Upper and lower motor neuron lesions 2) Enemurate causes of Upper and lower motor neuron lesions 3) Perform motor system examination including bulk and nutrition assessment gait,Assesment of tone, power, reflexes 4) Interprate abnormal findings of examination	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of sensory system	Small Group Discussions	1) Understand dermatomal supply 2) Perform sensory system examination including Crude touch, pain, Temperature. Fine touch, Pressure, Vibration, Joint position,Cortical sensations.	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE

		Two point localization, Two point discrimination. 3) Interprate abnormal findings of examination			
Examination of Cerebellar system.	Small Group Discussions	1)Understand function of cerebellum,) Discuss causes of cerebellar dysfunction and perform cerebellar signs 3) Interprate abnormal findings of examination of cerebellum	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE
Examination of SOMI	Small Group Discussions	1) Discuss causes of positive SOMI & Perform SOMI clinical method 2) Interprate abnormal findings of examination	LONG CASE/ SHORT CASE	Ward	KNOWLEDGE/SKILL/ ATTITUDE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
2	Procedures (observe) ECG taking O2 Therapy Nebulisation Endotracheal suction Lumber puncture NG tube passing and feeding Insertion of Foleys catheter IV lines, Fluids, Injections IV, IM, SC,	Small Group Discussions	Identify various instruments and enlist indications, contraindications and complications related to various procedures	OSPE/ VIVA	Ward	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
3 Infectious Disease	Presenting problems in infectious disease	Lecture/large group discussion	1)Understand various presenting problems in infectious disease patients	MCQ/ SEQ	Lecture hall	KNOWLEDGE
	Viral infections	Lecture/large group discussion	1)Understand etiology of various viral infections 2)Discuss the pathophysiology of various viral infections 3)Interprate and differentiate clinical features of various viral infections 4)Discuss relavant investigations and management options for various viral infections	MCQ/ SEQ	Lecture hall	KNOWLEDGE
	Bacterial infections	Lecture/large group discussion	1)Understand etiology of various infections 2)Discuss the pathophysiology of various infections 3)Interprate and differentiate clinical features of various infections 4)Discuss relavant investigations and management options for various infections	MCQ/ SEQ	Lecture hall	KNOWLEDGE
	Protozoal infectins	Lecture/large group discussion	1)Understand etiology of various infections 2)Discuss the pathophysiology of various infections 3)Interprate and differentiate clinical features of various infections 4)Discuss relavant investigations and management options for various infections	MCQ/ SEQ/ OSPE	Lecture hall	KNOWLEDGE
	Infections caused by helminths	Lecture/large group discussion	1)Understand etiology of various helminths 2)Discuss the pathophysiology of various helminths 3)Interprate and differentiate clinical features of various helminths 4)Discuss relavant investigations and management options for various helminthes	MCQ/ SEQ	Lecture hall	KNOWLEDGE

Fungal infections	Lecture/large group discussion	1)Understand etiology of various fungal infections 2)Discuss the pathophysiology of various fungal infections 3)Interprate and differentiate clinical features of various fungal infections 4)Discuss relavant investigations and management options for various fungal infections	MCQ/ SEQ/ OSPE	Lecture hall	KNOWLEDGE
Hiv infection and AIDS	Lecture/large group discussion	1)Understand etiology of HIV and AIDS 2)Discuss the pathophysiology of HIV and AIDS 3)Interprate and differentiate clinical features of HIV and AIDS 4)Discuss relavant investigations and management of HIV and AIDS	MCQ/ SEQ/ OSPE	Lecture hall	KNOWLEDGE
Sexually transmitted infections	Lecture/large group discussion	1)Understand etiology of various fungal infections 2)Discuss the pathophysiology of various fungal infections 3)Interprate and differentiate clinical features of various fungal infections 4)Discuss relavant investigations and management options for various fungal infections	MCQ/ SEQ/ OSPE	Lecture hall	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
4 Haematology and transfusion medicine	Functional anatomy and physiology	Lecture/large group discussion	Recall functional anatomy and physiology of haematology	MCQ/ SEQ	Lecture hall	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
4 Haematology and transfusion medicine	Functional anatomy and physiology	Lecture/large group discussion	Recall functional anatomy and physiology of haematology	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Investigations of diseases of blood	Lecture/large group discussion	Understand and interprate various investigations of diseases of blood	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Presenting problems in blood diseases	Lecture/large group discussion	1)Understand various presenting problems in heamatological disease patients	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Anemias	Lecture/large group discussion	1)Understand etiology of various anemias 2)Discuss the pathophysiology of various anemias 3)Interprate and differentiate clinical features of anemias 4)Discuss relavant investigations and management options for various anemias	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Haemoglobinopathies	Lecture/large group discussion	1)Understand etiology of various haemoglobinopathies 2)Discuss the pathophysiology of various haemoglobinopathies 3)Interprate and differentiate clinical features of haemoglobinopathies 4)Discuss relavant investigations and management options for various haemoglobinopathies			

Haematological malignancies	Lecture/large group discussion	1)Understand etiology of various haematological malignancies 2)Discuss the pathophysiology of various haematologicalmalignancies 3)Interprate and differentiate clinical features of haematologicalmalignacies 4)Discuss relavant investigations and management options for various haematological malignancies	MCQ/SEQ	Lecture hall	KNOWLEDGE
Aplastic anemias	Lecture/large group discussion	1)Understand etiology of aplastic anemias 2)Discuss the pathophysiology of aplastic anemias 3)Interprate clinical features of aplastic anemias 4)Discuss relavant investigations and management options for apalsticanemiasanemias	MCQ/SEQ	Lecture hall	KNOWLEDGE
Myeloproliferative neoplasm	Lecture/large group discussion	1)Understand etiology of various myeloproliferative neoplasms 2)Discuss the pathophysiology of various myeloproliferative neoplasms 3)Interprate and differentiate clinical features of myeloproliferative neoplams 4)Discuss relavant investigations and management options for various myeloproliferative neoplasms	MCQ/SEQ	Lecture hall	KNOWLEDGE

Bleeding disorders	Lecture/large group discussion	1)Understand etiology and pathophysiology of various bleeding disorders 2)Interprate and differentiate clinical features of bleeding discorders 3)Discuss relavant investigations and management options for various bleeding discorders	MCQ/SEQ	Lecture hall	KNOWLEDGE
Thrombotic disorders	Lecture/large group discussion	1)Understand etiology of various thrombotic disorders 2)Discuss the pathophysiology of various thrombotic disorders 3)Interprate and differentiate clinical features of thrombotic disorders 4)Discuss relavant investigations and management options for various thrombotic disorders	MCQ/SEQ	Lecture hall	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
5Skin Disease	Functional anatomy and physiology	Lecture/large group discussion	Recall functional anatomy and physiology of skin	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Presenting problems in skin disease	Lecture/large group discussion	Understand various presenting problem in skin disease	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Skin tumors	Lecture/large group discussion	1)Understand etiology of various Skin tumors 2)Discuss the pathophysiology of various Skin tumors 3)Interprate and differentiate clinical features of various Skin tumors 4)Discuss relavant investigations and management options for various Skin tumors	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Common skin infections and infestations	Lecture/large group discussion	1)Understand etiology of various Skin infections and infestations 2)Discuss the pathophysiology of various Skin infections and infestations 3)Interprate and differentiate clinical features of various Skin infections and infestations 4)Discuss relavant investigations and management options for various skin infections and infestations	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Acne and rosacea	Lecture/large group discussion	Understand etiology pathophysiology clinical features and management options for acne and rosacea	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Eczemas	Lecture/large group discussion	1)Understand etiology of eczema 2)Discuss the pathophysiology of eczema 3)Interprate and differentiate clinical features of eczema 4)Discuss relavant investigations and management options for eczema	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Psoriasis and other scaly eruptions	Lecture/large group discussion	1)Understand etiology of psoriasis and other scaly erruptions 2)Discuss the pathophysiology of psoriasis and other scaly erruptions 3)Interprate and differentiate clinical features of psoriasis and other scaly erruptions 4)Discuss relavant investigations and management options for psoriasis and other scaly erruptions	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Urticaria	Lecture/large group discussion	1)Understand etiology of urticaria 2)Discuss the pathophysiology of urticaria 3)Interprate clinical features of urticaria 4)Discuss relavant investigations and management options for urticaria	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Bullous diseases	Lecture/large group discussion	1)Understand etiology of bullous diseases 2)Discuss the pathophysiology of bullous diseases 3)Interprate and differentiate clinical features of bullous diseases 4)Discuss relavant investigations and management options for bullous diseases	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Pigmentation disorders	Lecture/large group discussion	1)Understand etiology of pigmentation disorders 2)Discuss the pathophysiology of pigmentation disorders 3)Interprate and differentiate clinical features of pigmentation disorders 4)Discuss relavant investigations and management options for pigmentation disorders	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Nail and hair disorders	Lecture/large group discussion	1)Understand etiology of various nail and hair disorders 2)Discuss the pathophysiology of various nail and hair disorders 3)Interprate and differentiate clinical features of various nail and hair disorders 4)Discuss relavant investigations and management options for various nail and hair disorders	MCQ/SEQ	Lecture hall	KNOWLEDGE

Department of ……Medicine……

Subject ……Medicine…….. Class …Fourth year MBBS……..

Head of department Prof Dr Muhammad Ali

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
1 History taking and clinical examination	Introduction to History Taking in General	Small Group Discussions	Take history of the patient	LONG CASE	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	How to perform General physical Examinaation in Medicine	Small Group Discussions	1) understand what is general physical examination 2) peform general physical examination 3) Interprate abnormal findings	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of Thyroid Gland	Small Group Discussions	1)Understand and Perform inspection, palpation,percussion& auscultation of thyroid gland 2) Interprate abnormal findings	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	How to take Blood pressure	Small Group Discussions	1)Under stand and Perform blood pressure check up 2) Interprarte blood pressure readings	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of Jvp	Small Group Discussions	1)Understand and perform JVP examination 2) interprate causes of raised JVP	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Symptomatic approach in GIT	Small Group Discussions	Take history and discuss differential diagnosis of patients with Vomiting, Diarrhea, Pain Abdomen,Constipation. Hematemesis, Melena, Dyspepsia, Distension.	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE

	Examination of GIT – Inspection, Palpation. Percussion, Auscultation.	Small Group Discussions	1)Understand and perform examination of Git, 2)Interprate abnormal findings	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Symptomatic approach in Respiratory system	Small Group Discussions	Take history and discuss differential diagnosis of patients with Shortness of Breath Chest pain, wheezing, cough sputum	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of Respiratory System – Inspection, Palpation. Percussion, Auscultation.	Small Group Discussions	1)Understand and perform examination of Respiratory System 2)Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Symptomatic approach in CVS	Small Group Discussions	Take history discuss differential diagnosis of patients with Shortness of Breath Chest pain, Edema, palpitations,Syncope	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of CV Inspection, Palpation. Percussion, Auscultation.	Small Group Discussions	1)Understand and perform examination of Respiratory System/ Inspection, Palpation. Percussion, Auscultation of precordium 2)Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Symptomatic approach in CNS	Small Group Discussions	Take history and discuss differential diagnosis of patients with syncope, fits, unconsciousness, weakness	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Higher Mental Functions	Small Group Discussions	1)Understand and Interprate GCS, Speech Abnormalities, memory and behavioural changes 2)Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of cranial nerves	Small Group Discussions	1)Perform cranial nerve examination methods (CN 1 to CN12) 2)Understand differences of UMN & LMN CN7 palsy 3) Interprate abnormal findings of examination of CN	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE

	Examination of Motor system	Small Group Discussions	1) Understand, differentiate between Upper and lower motor neuron lesions 2) Enemurat causes of Upper and lower motor neuron lesions 3) Perform motor system examination including bulk and nutrition assessment gait,Assesment of tone, power, reflexes 4) Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of sensory system	Small Group Discussions	1) Understand dermatomal supply 2) Perform sensory system examination including Crude touch, pain, Temperature. Fine touch, Pressure, Vibration, Joint position,Cortical sensations. Two point localization, Two point discrimination. 3) Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of Cerebellar system.	Small Group Discussions	1)Understand function of cerebellum,) Discuss causes of cerebellar dysfunction and perform cerebellar signs 3) Interprate abnormal findings of examination of cerebellum	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE
	Examination of SOMI	Small Group Discussions	1) Discuss causes of positive SOMI & Perform SOMI clinical method 2) Interprate abnormal findings of examination	LONG CASE/ SHORT CASE/	WARD	KNOWLEDGE/ SKILL/ ATTITUDE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
2	Procedures (observe and assist) ECG taking O2 Therapy Nebulisation Endotracheal suction Lumber puncture NG tube passing and feeding Insertion of Foleys catheter IV lines, Fluids, Injections IV, IM, SC,	Small Group Discussions	1)Identify various instruments, enlist indications, contraindications and complications related to various procedures 2)Assist in various medical procedures in ward	OSPE/ VIVA	Ward	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
3 Kidney and urinary tract disease	Functional anatomy and physiology	Lecture/large group discussion	Recall functional anatomy and physiology of kidney and urinary tract disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Investigations of renal and urinary tract disease	Lecture/large group discussion	Understand and interprate various investigations of renal and urinary tract diseases	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Presenting problems in renal and urinary tract disease	Lecture/large group discussion	1)Understand various presenting problems in renal and urinary tract disease patient	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Acute kidney injury	Lecture/large group discussion	1)Understand etiology of AKI 2)Discuss the pathophysiology of AKI 3)Interprate and differentiate clinical features of AKI 4)Discuss relavant investigations and management options for AKI	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Chronic kidney disease	Lecture/large group discussion	1)Understand etiology of CKD 2)Discuss the pathophysiology of CKD 3)Interprate and differentiate clinical features of CKD 4)Discuss relavant investigations and management options for CKD	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Renal vascular disease	Lecture/large group discussion	1)Understand etiology of renal vascular disease 2)Discuss the pathophysiology of renal vascular disease 3)Interprate and differentiate clinical features of renal vascular disease 4)Discuss relavant investigations and management options for renal vascular disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Glomerular disease	Lecture/large group discussion	1)Understand etiology of glomerular disease 2)Discuss the pathophysiology of glomerular disease 3)Interprate and differentiate clinical features of glomerular disease 4)Discuss relavant investigations and management options for glomerular disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Tubulointerstital disease	Lecture/large group discussion	1)Understand etiology of tubulointerstitial disease 2)Discuss the pathophysiology of tubulointerstitial disease 3)Interprate and differentiate clinical features of tubulointerstial disease 4)Discuss relavant investigations and management options for tubulointerstitial disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Cystic diseses of kidneys	Lecture/large group discussion	1)Understand etiology of various cystic diseases of kidney 2)Discuss the pathophysiology of various cystic diseases of kidney 3)Interprate and differentiate clinical features of cystic diseases of kidney 4)Discuss relavant investigations and management options for cystic diseases of kidney	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Renal stone disease	Lecture/large group discussion	1)Understand etiology of renal stone disease 2)Discuss the pathophysiology of renal stone disease 3)Interprate and differentiate clinical features of renal stone disease 4)Discuss relavant investigations and management options for renal stone disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Infections of urinary tract	Lecture/large group discussion	1)Understand etiology of UTI 2)Discuss the pathophysiology of UTI 3)Interprate and differentiate clinical features of UTI 4)Discuss relavant investigations and management options UTI	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Tumors of kidney and urinary tract	Lecture/large group discussion	1)Understand etiology of tumors of kidney and urinary tract 2)Discuss the pathophysiology of tumors of kidney and urinary tract 3)Interprate and differentiate clinical features of tumors of kidney and urinary tract 4)Discuss relavant investigations and management options for tumors of kidney and urinary tract	MCQ/SEQ	Lecture hall	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
4 Alimentary tract and pancreatic disease	Functional anatomy and physiology	Lecture/ large group discussion	Recall functional anatomy and physiology of alimentary tract and pancrease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Investigations of alimentary tract and pancrease	Lecture/ large group discussion	Understand and interprate various investigations of alimentary tract and pancreas	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Presenting problems in alimentary tract and pancreatic disease	Lecture/ large group discussion	1)Understand various presenting problems in alimentary tract and pancreatic disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Disease s of mouth and salivary gland	Lecture/ large group discussion	1)Understand etiology of Disease s of mouth and salivary gland 2)Discuss the pathophysiology of Disease s of mouth and salivary gland 3)Interprate and differentiate clinical features of Disease s of mouth and salivary gland 4)Discuss relavant investigations and management options for Diseases of mouth and salivary gland	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Diseases of oesophagus	Lecture/ large group discussion	1)Understand etiology of Diseases of oesophagus 2)Discuss the pathophysiology of Diseases of oesophagus 3)Interprate and differentiate clinical features Diseases of oesophagus 4)Discuss relavant investigations and management options for Diseases of oesophagus	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Diseases of stomach and duodenum	Lecture/ large group discussion	1)Understand etiology of Diseases of stomach and duodenum 2)Discuss the pathophysiology of Diseases of stomach and duodenum 3)Interprate and differentiate clinical features of Diseases of stomach and duodenum 4)Discuss relavant investigations and management options for Diseases of stomach and duodenum	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Diseases of small intestine	Lecture/ large group discussion	1)Understand etiology of Diseases of small intestine 2)Discuss the pathophysiology of Diseases of small intestine 3)Interprate and differentiate clinical features of Diseases of small intestine 4)Discuss relavant investigations and management options for Diseases of small intestine	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Diseases of pancrease	Lecture/ large group discussion	1)Understand etiology of Diseases of pancrease 2)Discuss the pathophysiology of Diseases of pancrease 3)Interprate and differentiate clinical features of Diseases of pancrease 4)Discuss relavant investigations and management options for Diseases of pancrease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Inflammatory bowel disease	Lecture/ large group discussion	1)Understand etiology of IBD 2)Discuss the pathophysiology of IBD 3)Interprate and differentiate clinical features of IBD 4)Discuss relavant investigations and management options for IBD	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Irritable bowel syndrome	Lecture/ large group discussion	1)Understand etiology of IBS 2)Discuss the pathophysiology of IBS 3)Interprate and differentiate clinical features of IBS 4)Discuss relavant investigations and management options for IBS	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Diseases of colon and rectum	Lecture/ large group discussion	1)Understand etiology of Diseases of colon and rectum 2)Discuss the pathophysiology of Diseases of colon and rectum 3)Interprate and differentiate clinical features oF Diseases of colon and rectum 4)Discuss relavant investigations and management options for Diseases of colon and rectum	MCQ/SEQ	Lecture hall	KNOWLEDGE

Department of ……Medicine……

Subject ……Medicine…….. Class …Final year MBBS……..

Head of department Prof Dr Muhammad Ali

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
1 Case Evaluation	as described in syllabus	Small group discussion	Discuss symptoms, differential diagnosis, investigations, management of various cases	LONG CASE/ SHORT CASE/ OSPE	WARD	KNOW LEDGE /SKILL/ ATTIT UDE
2 Procedure s	as described in syllabus	Small group discussion	Perform various medical procedures under supervision after a learning period of observation and assistance	OSPE	WARD	KNOW LEDGE /SKILL/ ATTIT UDE
3 Cardiovascular Disease	Functional anatomy and physiology	Lecture	Recall functional anatomy and physiology of cardiovascular system	MCQ/ SEQ	LECTURE HALL	KNOWLEDGE
	Presenting problems in cardiovascula r disease	Lecture/ large group discussion	1)Understand various presenting problems in cardiovascular disease	MCQ/ SEQ	LECTURE HALL	KNOWLEDGE
	Investigation of cardiovascula r disease	Lecture	1)Enamurate various cardiovascular investigations 2)understand various indications of investigation in cardiovascular diseases	MCQ/ SEQ	LECTURE HALL	KNOWLEDGE

	Ischaemic heart disease. • Angina • Myocardial infarction	Lecture	1)Define stable angina/unstable angina/NSTEMI/STEM Discuss pathophysiology of Angina and MI 3)Discuss clinical features of angina and MI 4)Discuss management of angina and MI 5)Discuss complications of Myocardial infarction And management of complications 6)Record history and examination of patient with ischemic heart disease	MCQ/ SEQ	LECTURE HALL	KNOWLEDGE
	Hypertension	Lecture	1)Define hypertension 2)Understand etiology and risk factors of hypertension 2)Discuss the pathophysiology of hypetension 3)Discuss causes of secondary hypertension 4)Interprate and differentiate clinical features of hypertension/secondary hypertension 5) Discuss causes of secondary hypertension 6) Discuss adverse effects of hypertension on target organs 7)Discuss relavant investigations and management options for systemic hypertension 7) Record/measure blood pressure of patient 8) Record history and examination of hypertension in a patient	MCQ/SEQ	LECTURE HALL	KNOWLEDGE
	Congestive cardiac failure	Lecture	1)Discuss etiology & pathophysiology of heart failure 2)Discuss and differentiate types of heart failure 3)make clinical assessment of acute and chronic heart failure 4)Discuss complications of heart failure 5)Discuss investigations of heart failure 6)discuss management of acute and chronic heart failure	MCQ/SEQ	LECTURE HALL	

	Acute rheumatic fever	Lecture	1)Discuss incidence and pathogenesis of acute rheumatic fever 2)Discuss clinical features of acute rheumatic fever 3)Enlist investigations of acute rheumatic fever 4)Discuss management of acute rheumatic fever 5)Discuss secondary prevention in acute rheumatic fever 6)Record history and examination of patient with acute rheumatic fever	MCQ/SEQ	LECTURE HALL	KNOWLEDGE
	Infective endocarditis	Lecture	1)Define infective endocarditis 2) Discuss incidence of infective endocarditis 2)Discuss pathophysiology of infective endocarditis 3)Discuss clinical features of infective endocarditis 4)Discuss investigations of infective endocarditis 5)Discuss management of infective endocarditis 6)Record history and examination of patient with infective endocarditis 7)Record history and examination of a patient with heart failure	MCQ/SEQ	LECTURE HALL	KNOWLEDGE
	Valvular heart diseases. • Mitral valve •Aortic valve	Lecture	1)Discuss the etiology and pathophysiology of valvular heart disease 2)Discuss clinical features of valvular heart disease 3)Discuss investigations of valvular heart disease 4)Discuss management of valvular heart disease 5)take history and examination of a patient with valvular heart disease	MCQ/SEQ	LECTURE HALL	KNOWLEDGE

	Congenital heart disease	Lecture	1)Discuss the etiology and pathophysiology of congenital heart disease 2)Discuss clinical features of congenital heart disease 3)Discuss investigations of congenital heart disease 4)Discuss management of congenital heart disease 5)take history and examination of a patient with congenital heart disease	MCQ/SEQ	LECTURE HALL	KNOWLEDGE
	Diseases of myocardium	Lecture	1)Discuss the etiology and pathophysiology of diseases of myocardium 2)Discuss clinical features of diseases of myocardium 3)Discuss investigations of diseases of myocardium 4)Discuss management of diseases of myocardium 5)take history and examination of a patient with diseases of myocardium	MCQ/SEQ	LECTURE HALL	KNOWLEDGE
	Diseases of pericardium ccccccccc	Lecture	1)Discuss the etiology and pathophysiology of diseases of pericardium 2)Discuss clinical features of diseases of pericardium 3)Discuss investigations of diseases of pericardium 4)Discuss management of diseases of pericardium 5)take history and examination of a patient with diseases of pericardium	MCQ/SEQ	LECTURE HALL	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment tools	Teaching Venue	Learning Domain
4Respiratory disease	Functional anatomy and physiology	Lecture	Recall functional anatomy and physiology of respiratory system	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Presenting problems in respiratory	Lecture	Understand various presenting problems in respiratory disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Investigation of respiratory disease	Lecture	1)Enamurate various respiratory disease investigations 2)understand various indications of investigation in respiratory diseases	MCQ/SEQ	Lecture hall/ward	KNOWLEDGE
	Obstructive pulmonary disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to obstructive pulmonary disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Infections of respiratory system	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to infections of respiratory system	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Tumors of bronchus and lung	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to tumors of bronchus and lung	MCQ/SEQ	Lecture hall	KNOWLEDGE

	Interstitial and infiltrative lung disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to interstitial and infiltrative lung disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Pulmonary vascular disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to pulmonary vascular disease	MCQ/SEQ	Lecture hall	KNOWLEDGE
	Pleural diseases	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to pleural disease	MCQ/SEQ	Lecture hall	KNOWLEDGE

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assesment Tools	Teaching Venue	Learning Domain
5Hepatology	1-Functional Anatomy & Physiology	Lecture	Recall functional Anatomy & Physiology of liver Functional Anatomy & Physiology	MCQS / SEQS	Lecture Hall	Knowledge
	2- Investigations of liver & Hepatology biliary disease	Lecture	Interprate investigations of liver disease investigations of liver hepatobiliary disease	MCQS / SEQS	Lecture Hall	Knowledge
	3-Presenting Problems in liver disease	Lecture	Differentiate presenting problems in liver disease presenting problems in liver disease	MCQS / SEQS	Lecture Hall	Knowledge
	4-Cirrhosis	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Cirrhosis	MCQS / SEQS	Lecture Hall	Knowledge
	5-Portal Hypertension	Lecture	To interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Portal Hypertention	MCQS / SEQS	Lecture Hall	Knowledge

	6-Infections of liver	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Infections of liver	MCQS / SEQS	Lecture Hall	Knowledge
	7-Alocholic Liver Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Alcoholic Liver Disease	MCQS / SEQS	Lecture Hall	Knowledge
	8-Non-Alcoholic Liver Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Non Alcoholic Liver Disease	MCQS / SEQS	Lecture Hall	Knowledge
	9-Auto Immune Liver & Biliary Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Auto Immune Liver & Biliary Disease	MCQS / SEQS	Lecture Hall	Knowledge
	10- Liver Tumors	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Liver Tumors	MCQS / SEQS	Lecture Hall	Knowledge
	11- Liver Transplantation	Lecture	Interprate Indications contra indications of Liver Transplatation.	MCQS / SEQS	Lecture Hall	Knowledge

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assesment Tools	Teaching Venue	Learning Domain
6Neurology & Stroke	1-Functional Anatomy & Physiology	Lecture	Recall functional Anatomy & Physiology of liver Neurology & Stroke	MCQS / SEQS	Lecture Hall	Knowledge
	2-Investigations of Neurological Disease	Lecture	Interprate investigations of Neurology & Stroke	MCQS / SEQS	Lecture Hall	Knowledge
	3-Presenting Problems with Neurological disease	Lecture	Differentiate presenting problems in Nurological& Stroke	MCQS / SEQS	Lecture Hall	Knowledge
	4-Headache Syndrome	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Headache syndrome	MCQS / SEQS	Lecture Hall	Knowledge
	5-Epilepsy	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Epilepsy	MCQS / SEQS	Lecture Hall	Knowledge
	6-Neuro Inflamatory of disorders	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Neuro Inflammatory of disorders	MCQS / SEQS	Lecture Hall	Knowledge
	7-Neuro De gerneated disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Neuro De - Generated disease	MCQS / SEQS	Lecture Hall	Knowledge
	8-Infections of nervous system	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Infections of nervous system	MCQS / SEQS	Lecture Hall	Knowledge
	9-Brain Tumors	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Brain Tumors	MCQS / SEQS	Lecture Hall	Knowledge
	10-Disorders of cerebellar disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Disorders of cerebellar disease	MCQS / SEQS	Lecture Hall	Knowledge

	11-Disorders of spine & Spinal Cord	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Disorders of spine & Spinal Cord	MCQS / SEQS	Lecture Hall	Knowledge
	12-Disease of Neuro Muscular Junction	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Disease of Neuro Muscular Junction	MCQS / SEQS	Lecture Hall	Knowledge
	13-Disease of peripheral nerves	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Disease of peripheral nerves	MCQS / SEQS	Lecture Hall	Knowledge
	14-Disease of muscles	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Disease of muscles	MCQS / SEQS	Lecture Hall	Knowledge

Chapter No.	**Topic**	**Teaching & Learning strategy**	**Learning Objectives Students should be able to:**	**Assesment Tools**	**Teaching Venue**	**Learning Domain**
7Rheumatology & Bone Disease	1-Functional Anatomy & Physiology	Lecture	Recall functional Anatomy &Physiology of Rheumatology & Bone Disease	MCQS / SEQS	Lecture Hall	Knowledge
	2-Musculo Skeletal Disease	Lecture	Interprate investigations of Rheumatology & Bone Disease	MCQS / SEQS	Lecture Hall	Knowledge
	3-Presenting Problems in Musculo Skeletal Disease	Lecture	Differentiate presenting problems of Rheumatology & Bone Disease	MCQS / SEQS	Lecture Hall	Knowledge
	4-Osteoarthritis	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Osteroarthritis	MCQS / SEQS	Lecture Hall	Knowledge

	5-Crystal Induced Arthritis	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Crystal Induced Arthritis	MCQS / SEQS	Lecture Hall	Knowledge
	6-Bone & Joints Infections	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Bone & Joints Infections.	MCQS / SEQS	Lecture Hall	Knowledge
	7-Rheumatoid Arthritis	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Rheumatoid Arthritis	MCQS / SEQS	Lecture Hall	Knowledge
	8-Spondyloarthropathies	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Spoondyloarthropathies	MCQS / SEQS	Lecture Hall	Knowledge
	9-Auto Immune connective tissue Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to connective tissue disease	MCQS / SEQS	Lecture Hall	Knowledge
	10-Vasculitis	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Vasculitis	MCQS / SEQS	Lecture Hall	Knowledge
	11-Diseases of Bones	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Diseases of Bones	MCQS / SEQS	Lecture Hall	Knowledge

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assessment Tools	Teaching Venue	Learning Domain
8 Endocrinology & Diabetes	1- Overview of Endocrinology	Lecture	1-Recall function Anatomy & Physiology of Endocrine system Interpretate & Differentiate investigations & Presenting Problems in Endocrine Disease.	MCQS / SEQS	Lecture Hall	Knowledge
	2-Thyroid Gland Disease	Lecture	2-To interpretate Etiology, Patho Physiology, Investigations & Treatment options relevant to Thyroid Gland Disease	MCQS / SEQS	Lecture Hall	Knowledge
	3-Para Thyroid Gland Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Para Thyroid Gland Disease	MCQS / SEQS	Lecture Hall	Knowledge
	4-Adrenal Gland Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Adrenal Gland Disease	MCQS / SEQS	Lecture Hall	Knowledge
	5- Hypothalamus & Pituitary Gland Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Hypothalamus & Pituitary Gland Disease	MCQS / SEQS	Lecture Hall	Knowledge
	6- Reproductive Gland Disease	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Reproductive Gland Disease	MCQS / SEQS	Lecture Hall	Knowledge
	7-Functional Anatomy & Physiology in Diabetes Mellitus	Lecture	interprate Functional Anatomy &Phsilogy in Diabetes Mellitus	MCQS / SEQS	Lecture Hall	Knowledge
	8- Investigations & Diabetes Mellitus	Lecture	interprate Investigations in Diabetes Mellitus	MCQS / SEQS	Lecture Hall	Knowledge
	9-Etiology & Pathogenesis of Diabetes Mellitus	Lecture	interprateEtilogy& Pathogenesis of Diabetes Mellitus	MCQS / SEQS	Lecture Hall	Knowledge

	10-Presenting Problems in Diabetes Problems	Lecture	interprate Presenting Problems in Diabetes Problems	MCQS / SEQS	Lecture Hall	Knowledge
	11- Management of Diabetes	Lecture	interprate Management of Diabetes	MCQS / SEQS	Lecture Hall	Knowledge
	12- Complications of Diabetes	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Complications of Diabetes	MCQS / SEQS	Lecture Hall	Knowledge

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assesment Tools	Teaching Venue	Learning Domain
9 Physchiatrist Disease	1-Presenting Problems in Physchatiry illness	Lecture	InterprateInvsetigations of Prsenting Problems in Physchatiry illness	MCQS / SEQS	Lecture Hall	Knowledge
	2-Dimentia	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Dimentia	MCQS / SEQS	Lecture Hall	Knowledge
	3-Alchol Misuse & Dependence	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to AlcholMisuce& Dependence	MCQS / SEQS	Lecture Hall	Knowledge
	4-Substance Misuse Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Substance Misuse Disorder	MCQS / SEQS	Lecture Hall	Knowledge
	5-Schizophrenia	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Schizophrenia	MCQS / SEQS	Lecture Hall	Knowledge
	6-Mood Disorders	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Mood Disorders	MCQS / SEQS	Lecture Hall	Knowledge

	7-Anxiety Disorders	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Anxiety Disorders	MCQS / SEQS	Lecture Hall	Knowledge
	8-Obsessive Compulsive Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Obsessive Compulsive Disorder	MCQS / SEQS	Lecture Hall	Knowledge
	9-Stress Related Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Stress Related Disorders	MCQS / SEQS	Lecture Hall	Knowledge
	10-Somatoform Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Somatoform Disorder	MCQS / SEQS	Lecture Hall	Knowledge
	11- Eating Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Eating Disorder	MCQS / SEQS	Lecture Hall	Knowledge
	12-Personality Disorders	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Personality Disorders	MCQS / SEQS	Lecture Hall	Knowledge
	13-Factitious Malingering	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to Factitious Malingering	MCQS / SEQS	Lecture Hall	Knowledge
	14-PuerperalPhyscatiry Disorder	Lecture	interprate Etiology, Patho Physiology, Investigations & Treatment options relevant to PuerperallPhyscatiryDisoder	MCQS / SEQS	Lecture Hall	Knowledge

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assesment Tools	Teaching Venue	Learning Domain
10Acute poisoning	Organophosph poisoning Kala Pathar Intake Snake bite TCA overdose Benzodiazepine over dose	Lecture	1)Interprate and differentiate clinical features of various poisoning 2)Discuss relavant investigations and management options for various poisoning	Mcq/Seq	Lecture Hall	Knowledge

Chapter No.	Topic	Teaching & Learning strategy	Learning Objectives Students should be able to:	Assesment Tools	Teaching Venue	Learning Domain
11 Disturbances in water, electrolyte and acid base balances, metabolic disorders	a) Hyperlipidema b) Haemachromatosis c) Wilsons Disease d) Hypercalcemia e) Hypocalcemia f) Hypernatremia g) Hyponatremia h) ABGs	Lecture	1)Understand etiology of various water electrolyte, acid base balance, metabolic disorders 2)Discuss the pathophysiology of various water electrolyte, acid base balance, metabolic disorders 3)Interprate and differentiate clinical features of various water electrolyte, acid base balance, metabolic disorders 4)Discuss relavant investigations and management options for various water electrolyte, acid base balance, metabolic disorders	Mcq/Seq	Lecture Hall	Knowledge

Teaching Stratigies/Course Organization:

Subject information is delivered to students through lectures, interactive sessions/small group discussion/self directed learning and clinical rotation throughout the year. The course is organized as three terms around whole academic year

There are the components to the course:

o Class lecture

o Clinical Ward rotation

Class Lecture: There will be 5 lectures per week, one of 50 minutes duration each in final year Mbbs. There will be 2 lectures per week each of 50 minutes duration in 4th year Mbbs. There will be 1 lecture per week of 50 minutes duration in 3rd year Mbbs.

Clinical Rotation

Each class of 3rd year, 4th year and final year Mbbswill be divided into small groups for clinical rotation to medical wards. There will be 5 practical sessions per week in final year Mbbs including eveningrotation. There will be 4 practical sessions per week including evening rotation for fourth year Mbbs. There will be 3 practical sessions per week for 3rd yearMbbs. Clinical Work will be performed in Medical wards of Bakhtawar Amin Hospital. Clinical demonstration will be given to the students about methods and detailed patient assessment will be done.

Practical/clinical session includes

o History Taking

o General Physical Examination

o Systemic Examination

o Emergency Drug Identification

o Clinical Signs Demonstration

Assessment Strategies

Include

- Written tests
- Clinical methods ward tests / Ospe
- Clinical attendance
- Lecture attendance

Assessment Schedule

Formative Assessment (10 % of Total Marks in Subject of Medicine)

Term Test

Written Tests will be conducted at the end of each term. Tests will consist of multiple choice questions (MCQs) and short essay questions (SEQs).

Clinical methods ward test/Ospe

At the end of clinical rotation of each batch ward test including long case/short cases/ospewill be conducted.

Send Up Examination

Written Tests will be conducted at the end of session as send up on university exam pattern containing 2 papers. The paper will consist of multiple choice questions (MCQs) and short essay questions (SEQs) as described in TOS

Summative Assesment (90% of Total Marks in subject of Medicine)

University Exam

Written examination will be conducted at the end of session by UHS as on university exam pattern containing 2 papers. The theory papers will consist of multiple choice questions (MCQs) and short essay questions (SEQs) as described in TOS.

After theory exam is finished, the students undergo a clinical examination including ospe/ long case and short cases.

Learning resource:

- Davidsons Principles and Practice of Medicine 23rd Edition
- Kumar and Clark Clinical Medicine 9th Edition
- Macleods Clinical Examination
- Hutchisons Clinical Methods

MBBSFINALPROFESSIONALEXAMINATION MEDICINEI

Table of Specifications

SEQs

Maximum Marks: 45

Time: 2 Hours

All questions carry equal marks Attempt all questions

SrNo: Topic	:No ofSEQs
1 : CardiovascularSystem	:02
2 : PulmonaryMedicine	:01
3 : Central Nervous System	:01
4 : GastroitestinalSystem	:02
5 : Liver, Pancrease,Gallbladder	:01
6 :Blood	:01
7 :Rheumatology	:01

MCQs

Total Mark 45 **Time: 1 hour**

Mark for each **MCQ: 01**

Type of MCQ: One best of five

SrNo: Topic	:No ofMCQs
1 : CardiovascularSystem	:07
2 : PulmonaryMedicine	:07
3 : Central NervousSystem	:07
4 : GastroitestinalSystem	:07
5 : Liver, Pancrease,Gallbladder	:06
6 : Blood	:05
7 : Rheumatology	:06

MBBS FINAL PROFESSIONL EXAMINATION MEDICINE-II

Table of Specifications

SEQs

Maximum marks: 45

Time: 2 hours

All questions carry equal marks. Attempt all questions.

Sl. No.	Topic Specification	SEQs
1.	Endocrines	02
2.	Renal / Kidneys, Water, Acid Base / Electrolyte; Metabolism	02
3.	Infection / Tropical Diseases	02
4.	Neuro-Psychiatry	02
5.	Dermatology	01
Total		**09**

MCQs

Total MCQs 40

Time: 60 minutes

Time for each MCQ: 1½ minutes Marks for each MCQ: one

Type of MCQ: One Best of Five

Sl. No.	**Topic Specification**	**MCQs**
1.	**Endocrines:** a) Diabetes Mellitus. b) Thyroid. c) Adrenals. Misc. / others.	05 **(Breakup of MCQs as follows)** 01 01 01 02
2.	Renal / Kidneys ; Water, Acid Base / Electrolyte; Metabolism	10
3.	Infection / Tropical Diseases	07
4.	**Neuro-Psychiatry :** a) Signs and Symptoms in Psychiatric patients. b) Patients presenting with fear and panic. c) Persistent complainer and somatization. d) The depressed patient. e) Patients brought with features of psychosis (odd, excited, aggressive). f) Conversion States. g) Mental Handicap. h) Confused and disoriented patients.	10 **(Breakup of 10 MCQs)** **One MCQ from each Topic.**

	i) Substance abuse disorder. j) Obsessional states.	
5.	**Dermatology:** a) Eczema. b) Papulosquamous Dermatoses. c) Drug Eruptions. d) Bullous Dermatoses. e) Bacterial Infections of Skin. f) Cuta- neous Infestations. g) Sexually Transmitted Infections. h) Skin Manifestations of Systemic Disorder.	06 **(06 MCQs from the topics given)**
6.	Nutrition; Data / Photo.	02