

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान, सेवा आयोग
प्राज्ञिक सेवा, इन्टर्नल मेडिसिन समूह, **Neurology** उपसमूह, सहायकप्राध्यापक पद, (नौ ख) (९ख) तहको
खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

Section (A) Internal Medicine - 45 Marks

(1 critical analysis Q -15 mark + 3 long Q- 30 marks)

1. Anatomy

1.1 Pulmonology

- 1.1.1 Gross anatomy of upper and lower respiratory tracts, lungs with lobes and fissures with surface marking
- 1.1.2 Concept of bronchopulmonary segments and lobule or acinus aerated by a terminal bronchiole
- 1.1.3 Histology of alveolar lining cells
- 1.1.4 Pulmonary vascular bed
- 1.1.5 Pleura and pleural space, functions and histology
- 1.1.6 Mediastinum and their structures
- 1.1.7 Thoracic cage and primary and secondary muscles of respiration
- 1.1.8 The diaphragm its attachments, nerve supply and function
- 1.1.9 Lymphatic drainage of lungs and pleura
- 1.1.10 Innervation of the lungs
- 1.1.11 Thoracic receptors

1.2 Cardiovascular system

- 1.2.1 Gross anatomy of the heart and circulatory system
- 1.2.2 Histology of the cardiac muscles
- 1.2.3 Embryology of the heart and circulation
- 1.2.4 Coronary and pulmonary circulation

1.3 Gastrointestinal tract

- 1.3.1 Gross anatomy of the gastrointestinal tract at different levels
- 1.3.2 Gross anatomy of the hepatobiliary system and pancreas
- 1.3.3 Histological aspects of GI tract at different levels
- 1.3.4 Blood supply and development aspects of GI tract and hepatobiliary system

1.4 Kidney and urinary tract

- 1.4.1 Gross anatomy of the kidney and urinary tract
- 1.4.2 Structure of nephron and function at different level
- 1.4.3 Development of kidney and urinary tract
- 1.4.4 Renal circulation

1.5 Endocrinal organs

- 1.5.1 Gross anatomy of different endocrinal organs and their development

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1.5.2 Histology of different endocrinal organs

2. Physiology

- 2.1 Homeostatic behaviors of different fluid compartment in the body and implications during common clinical situations of burn, blood loss, diarrhea, vomiting, etc.
- 2.2 Role of pH in normal and in abnormal conditions e.g., diarrhea, vomiting, airway obstruction, medication, etc
- 2.3 Functions of micro/macro molecular, organelles and other structures of the cell
- 2.4 Nutritional requirements of normal people (different ages, male, female) and ill patients of all categories with their modality of supplement
- 2.5 Mechanisms of metabolic response to trauma and infection
- 2.6 Function of hemopoietic /R.E.system
- 2.7 Blood groups, methods of transfusion of blood & blood products & their hazards
- 2.8 Mechanism of haemostasis, fibrinolysis & methods to control haemorrhage
- 2.9 Types of excitable tissues and methods of recording their activity e.g., EMG, EEG, ECG, etc
- 2.10 Cellular communication, chemical/neuronal/ electrical/synaptic transmission
- 2.11 Autonomic nervous system
- 2.12 Neuro transmitters, their synthesis and metabolism
- 2.13 Drugs affecting neurotransmitter activity
- 2.14 Cardiac and smooth muscles
- 2.15 Calcium metabolism
- 2.16 Pain and the mechanism of pain
- 2.17 Physiology of consciousness and sleep mechanism
- 2.18 Effect of injury to neurons
- 2.19 Different methods of monitoring of the heart functions
- 2.20 Drugs used for inotropic & chronotropic effects
- 2.21 Mechanism of blood pressure regulation
- 2.22 Physiology of circulation of different organ in the body
- 2.23 Pathophysiology of shock and principle of their management
- 2.24 Capillary exchange
- 2.25 Assess vascular functions
- 2.26 Respiration & cause of breathlessness

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- 2.27 Measure blood flow
- 2.28 Measure/ assess blood gas
- 2.29 Mechanism of respiratory control
- 2.30 Mechanism of transport
- 2.31 Use of oxygen as therapy
- 2.32 Mechanism of absorption from gut and physiology of gastrointestinal motility
- 2.33 Composition of GI and hepatobiliary secretions and methods for their assessment
- 2.34 Normal functions of the liver
- 2.35 Formation of urine
- 2.36 Mechanism of osmoregulation
- 2.37 Normal thermoregulation
- 2.38 Mechanism of hormone synthesis, secretion, metabolism

3. Pathology

- 3.1 Concept of cell injury, different types of degeneration & trauma
- 3.2 Principles of inflammation and the results of various types of inflammation
- 3.3 Acute and chronic inflammation
- 3.4 Tissue regeneration, wound healing and healing process
- 3.5 Various types of disorder of growth
- 3.6 Principles of neoplasia
- 3.7 Benign and malignant tumor
- 3.8 Mechanism of thrombosis, and embolism and their effects
- 3.9 Ischemia & infarction
- 3.10 Mechanism of blood clotting and different types of bleeding disorders
- 3.11 Principle of blood grouping system & complications of blood transfusion
- 3.12 Principle of shock
- 3.13 Principle of genetics and apply its concept in hereditary diseases
- 3.14 Principle of immune response
- 3.15 Humoral and cell mediated immunity
- 3.16 Principle of organ transplantation and causes of its rejection
- 3.17 Principle of Host Parasite relationship
- 3.18 Different types of micro-organism (Bacteria, Fungus, Parasite, and Virus)
- 3.19 Pathogenic and non-pathogenic micro-organisms
- 3.20 Principle of asepsis & antisepsis, sterilization and disinfection

- 3.21 Principle of antibiotic and chemotherapy
- 3.22 Microbes that cause wound infection
- 3.23 Principle of Hospital infection (Nosocomial infection)

4. Clinical Pharmacology

4.1 General clinical pharmacology

- 4.1.1 Pharmacokinetics, pharmacodynamics, adverse drug reactions, drug interactions, drug use in childhood, pregnancy, lactation, and old age
- 4.1.2 Clinical trials
- 4.1.3 Rational drug use

4.2 Neurosensory and musculoskeletal systems

- 4.2.1 Parasympathomimetics and parasympatholytics, adrenergic and antiadrenergic drugs, narcotic and non-narcotic analgesics, non-steroidal anti-inflammatory drugs, alcohol, sedative/hypnotics, anti-parkinsonism drugs, anesthetics (general and local), appetite suppressants
- 4.2.2 Drugs for psychiatric disorder, gout and rheumatoid arthritis, vertigo, and eye, ENT, and skin diseases

4.3 Cardiovascular system

- 4.3.1 Drugs for the treatment of heart failure, cardiac arrhythmias, angina pectoris, hypertension, shock, thromboembolic disorders, myocardial infarction, anemia
- 4.3.2 Hemostatics, anti-coagulants, and lipid-lowering drugs

4.4 Gastrointestinal system

- 4.4.1 Drugs for peptic ulcer, diarrhoea, constipation
- 4.4.2 Antispasmodics, antiemetics

4.5 Respiratory system

- 4.5.1 Drugs for bronchial asthma
- 4.5.2 Antihistamines and other antiallergic agents
- 4.5.3 Cough preparation, nasal decongestants, and respiratory stimulants

4.6 Reproductive/Endocrine systems

- 4.6.1 Anti-diabetics, thyroid and anti-thyroid drugs, corticosteroids, sex hormones and antagonists, hypothalamic and pituitary hormones
- 4.6.2 Drugs used in labor and puerperium

4.7 Renal/Electrolyte system

- 4.7.1 Drugs for edema, and fluid/electrolyte and acid/base

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disturbances

4.8 Infections

4.8.1 General principle of chemotherapy

4.8.2 Antibacterial, antiprotozoal, anthelmintic, antifungal, and antiviral drugs

4.9 Miscellaneous drugs

4.9.1 Drugs for malignant diseases and immunosuppression

4.9.2 Vaccines

4.9.3 Vitamins and minerals

4.9.4 Antidotes

5. Recent Advances in Internal Medicine and Emergencies

5.1 Recent advances in all disciplines of Internal Medicine

5.2 Cardiovascular emergencies: Cardiac arrest, Acute MI, Cardiogenic shock, Cardiacarrhythmias, Pulmonary edema, Hypertensive crisis, Acute cardiac tamponade, DVT & pulmonary embolism

5.3 Respiratory emergencies: Hemoptysis, Acute respiratory failure, Pneumothorax, Statusasthmaticus, ARDS

5.4 Gastrointestinal emergencies: G.I. bleeding, Acute gastroenteritis and food poisoning, Acute pancreatitis, Hepatic failure, Acute abdomen

5.5 Endocrine and metabolic emergencies: DKA and coma, Hypoglycemia, Hyperosmolar non ketotic diabetic coma, Thyroid crisis, Myxoedema coma, Pheochromocytoma, Acuteadrenocorticalcrisis, Hypopituitarism

5.6 Hematological emergencies: Aplastic anaemia, Agranulocytosis, Acutethromocythpenicpurpur, Leukemia, Hemophiliaandallieddisorders

5.7 Renal emergencies: Renalcolic, Renalfailure, Hematuria

5.8 Miscellaneous emergencies:

5.8.1 Emergencies in fluid and electrolyte balance

5.8.2 Acute emergencies in infectious and tropicaldisease

5.8.3 Malaria

5.8.4 Septicemia

5.8.5 Tetanus

5.8.6 Snakebite

5.8.7 Dog bite & rabies

5.8.8 Poisonings

5.8.9 Drowning

5.8.10Electrocution

6. Principles and Practice of Internal Medicine

6.1 Gastroenterology

- 6.1.1 Acid peptic diseases
- 6.1.2 Gastrointestinal bleeding: upper (nonvariceal/variceal) and lower
- 6.1.3 Gastroesophageal reflux disease (GERD)
- 6.1.4 Dysphagia in relation to malignancy and achalasia
- 6.1.5 Malabsorption syndrome
- 6.1.6 IBD: ulcerative colitis and Crohn's disease
- 6.1.7 Diverticular diseases
- 6.1.8 Irritable bowel syndrome
- 6.1.9 Acute abdomen
- 6.1.10 Ascites
- 6.1.11 Liver disorders
- 6.1.12 Hepatitis: acute and chronic
- 6.1.13 Cirrhosis with special reference
- 6.1.14 Hepatic cellular cancer
- 6.1.15 Jaundice: obstructive and non-obstructive
- 6.1.16 Liver failure: acute and chronic
- 6.1.17 Pancreas
- 6.1.18 Acute, recurrent & chronic pancreatitis
- 6.1.19 Pancreatic tumor (exocrine & endocrine)
- 6.1.20 Cystic fibrosis & other childhood disorder of the pancreas
- 6.1.21 Hereditary pancreatitis
- 6.1.22 Pancreatic transplantation

6.2 Respiratory Medicine

- 6.2.1 Anatomy and applied physiology of the respiratory system
- 6.2.2 Understanding of basic pathophysiology and be able to manage the disease processes mentioned below considering the relevant differential diagnosis:
 - 6.2.2.1 Pneumonias
 - 6.2.2.2 Lung abscess
 - 6.2.2.3 Tuberculosis
 - 6.2.2.4 Fungal infections
 - 6.2.2.5 Bronchial asthma
 - 6.2.2.6 Chronic bronchitis, emphysema and cor-pulmonale
 - 6.2.2.7 Cystic fibrosis

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- 6.2.2.8 Pulmonary eosinophilia
- 6.2.2.9 Bronchiectasis (including its postural drainage management)
- 6.2.2.10 Pulmonary oedema (cardiogenic and non-cardiogenic including ARDS)
- 6.2.2.11 Interstitial lung disease (including fibrosingalveolitis, extrinsic alveolitis, lung fibrosis, sarcoidosis and pneumoconiosis)
- 6.2.2.12 Carcinoma lung and other neoplasms
- 6.2.2.13 Mediastinal masses
- 6.2.2.14 Pleural diseases (e.g., dry pleurisy, pleural effusion, empyema)
- 6.2.2.15 Pneumothorax
- 6.2.2.16 Sleep apnoea syndrome
- 6.2.2.17 Acute and chronic respiratory failure

6.3 Hematology

- 6.3.1 Physiology and pathophysiology of blood cell formation and haemostasis
- 6.3.2 Pathophysiology, causes and management of:
 - 6.3.2.1 Anaemia: iron deficiency (with iron metabolism), megaloblastic, haemolytic anaemia and aplastic anaemia
 - 6.3.2.2 Haemoglobinopathy and Polycythemia
 - 6.3.2.3 Leukaemia: myeloid (acute and chronic) and lymphoid (acute and chronic)
 - 6.3.2.4 Myeloproliferative diseases
 - 6.3.2.5 PV (Polycythemia Vera)
 - 6.3.2.6 Myelofibrosis
 - 6.3.2.7 Essential thrombocytosis
 - 6.3.2.8 Bleeding Disorders
 - 6.3.2.9 Platelet Disorders
 - 6.3.2.10 Lymphomas: Hodgkin's and NonHodgkin's
- 6.3.3 Explain the underlying principles and complications of:
 - 6.3.3.1 Blood Transfusion, Blood group and Rh factor, Principles of cross match, Hazards of transfusion, Blood-platelets component, Bone Marrow Transplantation
 - 6.3.3.2 Infectious and Tropical diseases
- 6.3.4 Understanding of the following procedures:
 - 6.3.4.1 Peripheral blood smear
 - 6.3.4.2 Splenic aspiration
 - 6.3.4.3 Z-N staining

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- 6.3.4.4 Gram's staining
- 6.3.4.5 Bone marrow examination
- 6.3.4.6 Stool examination
- 6.3.4.7 Aldehyde test
- 6.3.4.8 Liver biopsy
- 6.3.5 Microbiological aspects of various infectious disease
- 6.3.6 Underlying pathogenesis of various infectious/tropical disorders
- 6.3.7 Basic pharmacokinetics of drugs used for treatment of tropical and infectious diseases
- 6.3.8 Diagnose and manage following emergencies:
 - 6.3.8.1 Septicemia, septic shock
 - 6.3.8.2 Cerebral malaria/black water fever
 - 6.3.8.3 Tetanus/gas gangrene
 - 6.3.8.4 Acute viral encephalitis
 - 6.3.8.5 Hepatic Encephalopathy
 - 6.3.8.6 Enteric Encephalopathy
 - 6.3.8.7 HIV&AIDS
- 6.4 **Rheumatology**
 - 6.4.1 Common clinical presentations of rheumatic disease
 - 6.4.2 Systemic perspective of rheumatic diseases in different systems
 - 6.4.3 Genetics and rheumatic diseases
 - 6.4.4 Inflammatory arthritides (RA, SpA, crystal arthritis and others)
 - 6.4.5 Infection and joints (Septic arthritis and others)
 - 6.4.6 Connective tissue diseases (SLE, systemic sclerosis and others)
 - 6.4.7 Vasculitides
 - 6.4.8 Diseases of bones and cartilages (osteoarthritis, osteoporosis and others)
 - 6.4.9 Regional musculoskeletal pain syndromes
 - 6.4.10 Miscellaneous conditions (autoinflammatory diseases, sarcoidosis & others)
 - 6.4.11 Bone marrow aspiration
 - 6.4.12 Bone marrow biopsy
 - 6.4.13 Z-N staining
 - 6.4.14 Muscle biopsy
 - 6.4.15 Skin biopsy
 - 6.4.16 Arthrocentesis
 - 6.4.17 Intra-articular injections
 - 6.4.18 Anatomical and physiological aspects of joints, muscle and blood vessels in relation to rheumatologic conditions

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- 6.4.19 Basis of cellular and humoral immune response, autoimmunity and gene therapy in rheumatological disorders
- 6.4.20 Interpret the results of various tests such as LE cell, ANF, anti-DNA, electrophoresis, complement system
- 6.4.21 Analysis of synovial fluid
- 6.4.22 Interpret the X-ray findings of bones and joints
- 6.4.23 Interpretation of the results of:
 - 6.4.23.1 Muscle biopsy
 - 6.4.23.2 Skin biopsy
 - 6.4.23.3 Kidney biopsy
- 6.4.24 To diagnose and manage rheumatologic emergencies
- 6.5 **Endocrinology and metabolic diseases**
 - 6.5.1 Understanding of the following procedures:
 - 6.5.1.1 Arterial puncture for blood gas analysis
 - 6.5.1.2 Use of glucometer and stripes for blood sugar
 - 6.5.1.3 Urine examination for sugar, Ketones, Specific gravity
 - 6.5.2 Interpret the findings of the following procedures/tests:
 - 6.5.2.1 Arterial blood gas analysis
 - 6.5.2.2 Pulse oximetry
 - 6.5.2.3 Thyroid function tests
 - 6.5.2.4 Pituitary function tests
 - 6.5.2.5 Parathyroid function tests
 - 6.5.2.6 Adrenal gland function tests
 - 6.5.2.7 G.T.T
 - 6.5.2.8 Sex hormone analysis
 - 6.5.2.9 Plain X-ray of various parts concerned
 - 6.5.3 Interpret the finding of:
 - 6.5.3.1 FNAC report of thyroid gland
 - 6.5.3.2 CT scan reports of various endocrine organs
 - 6.5.4 Diagnose and manage following emergencies:
 - 6.5.4.1 D.K.A. and coma and hyperosmolar nonketotic coma
 - 6.5.4.2 Hypoglycaemia
 - 6.5.4.3 Thyroid crisis
 - 6.5.4.4 Myxoedema coma
 - 6.5.4.5 Pheochromocytoma
 - 6.5.4.6 Hypopituitarism
 - 6.5.4.7 Hypocalcaemia
 - 6.5.4.8 Acute adrenocortical crisis
 - 6.5.4.9 Hypopituitarism
 - 6.5.5 Explain the structural and functional basis:

6.5.5.1 Various endocrine glands, homeostatic control mechanism of hormone regulation, and the genetic basis of various endocrine disorders

7. Cardiology

- 7.1 Diagnose order and interpret appropriate investigations and manage the following clinical conditions:
 - 7.1.1 Acute Rheumatic Fever
 - 7.1.2 Valvular heart disease: rheumatic and non-rheumatic
 - 7.1.3 Common congenital heart diseases
 - 7.1.4 Hypertension and hypertensive heart disease
 - 7.1.5 Ischaemic heart disease:
 - 7.1.5.1 Stable and unstable angina
 - 7.1.5.2 Acute myocardial infraction
 - 7.1.6 Cardiomyopathies: dilated cardiomyopathy, hypertrophic cardiomyopathy, restrictive cardiomyopathy
 - 7.1.7 Pericardial diseases: pericarditis, pericardial effusion and constrictive pericarditis
 - 7.1.8 Diseases of great arteries: coarctation of aorta, aortitis, aneurysm
 - 7.1.9 Deepvein thrombosis: thromboembolism & pulmonary embolism
 - 7.1.10 Arrhythmias
 - 7.1.10.1 Bradyarrhythmia (SA, AV blocks)
 - 7.1.10.2 Tachyarrhythmias (SVT, VT, VF, WPW, AF, AVF)
 - 7.1.10.3 Infective Endocarditis
- 7.2 Interpret the investigative of following procedures:
 - 7.2.1 ECG with various arrhythmias
 - 7.2.2 Stress electrocardiomyopathy
 - 7.2.3 Echocardiogram of common acquired and congenital heart disease
 - 7.2.4 Cardiac enzymes, pericardial fluid analysis
- 7.3 Diagnose and manage
 - 7.3.1 Pulmonary oedema and cardiogenic shock
 - 7.3.2 Dyslipidaemias
 - 7.3.3 Cor pulmonale and pulmonary arterial hypertension
 - 7.3.4 Electrolyte imbalance
 - 7.3.5 Basic science applied to cardiology
 - 7.3.6 Fetal circulation
 - 7.3.7 Coronary circulation
 - 7.3.8 Pulmonary circulation
 - 7.3.9 Embryogenesis of congenital heart diseases

7.3.10Valvularapparatus

7.3.11Conduction system

7.3.12Pharmacology of cardiac drugs

7.3.13Exercisephysiology

7.3.14Etiopathogenesis and pathophysiology of various cardiac diseases in relation to clotting system, lipid abnormalities, infectious diseases

7.3.15Hemodynamics (exercise, high altitude, metabolic and hormonal disorders, fetal circulation)

8. Nephrology

8.1 Diagnose, investigate and treatment of following renal emergencies:

8.1.1 Acute renal failure

8.1.2 Renal colic

8.1.3 Haematuria

8.1.4 Fluid, electrolyte and acid-basic imbalance

8.2 Diagnose, investigate and treatment of following common renal diseases:

8.2.1 Acute glomerulonephritis

8.2.2 Nephrotic syndrome

8.2.3 Urinary tract infection

8.2.4 Chronicrenal failure

8.2.5 Adult polycystic kidney disease, Alports syndrome

8.2.6 Diabetic Nephropathy

8.2.7 Renal tubular acidosis (RTA)

8.2.8 Interstitial Nephropathy

8.2.9 Toxic Nephropathy

8.2.10Lupus Nephritis

8.2.11Nephrocalcinosis and Nephrolithiasis

8.2.12Renal arterystenosis (RAS)

8.3 Interpret investigations of:

8.3.1 Renal function test(RFT)

8.3.2 Blood gas analysis

8.3.3 Renal biopsy report

8.4 Basic principles of haemodialysis and peritoneal dialysis and their specific indications

9. Oncology

9.1 Etiopathogenesis of cancer

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- 9.2 Epidemiology of cancer
- 9.3 Cancer prevention & screening
- 9.4 Diagnosis & diagnostic tools in cancer
- 9.5 Principles of cancer management
- 9.6 Common cancers: Oesophagus, stomach, colorectum, hepatocellular cancer, cancers of the biliary tree, pancreas, breast, lung, renal cell carcinoma, prostate, testicular, GIST, ovarian, endometrial, hematological & lymphoid malignancies, cancers of the endocrine system, HIV-associated cancers, tumors of the mediastinum etc
- 9.7 Oncological emergencies & paraneoplastic syndromes
- 9.8 Anticancer therapeutics

10. Dermatology

- 10.1 Scabies
- 10.2 Superficial mycoses
- 10.3 Superficial bacterial infections
- 10.4 Diagnosis and management of drug induced cutaneous eruptions

11. Psychiatry

- 11.1 Diagnose anxiety neurosis, depression and schizophrenia
- 11.2 Differentiate between functional and organic psychoses (simple and uncomplicated)
- 11.3 Treat cases of anxiety neurosis and depression
- 11.4 Diagnose and manage substance abuse

Section (B) Neurology - 55 Marks
(1 critical analysis Q -15 marks + 4 long Q -40 marks)

1. Introduction to Neurology

- A. Anatomy (including Vascular Anatomy) of Central and Peripheral Nervous System
- B. Physiology of Nervous System
- C. Pathogenesis of Neurological Diseases
- D. Approach to the Patient with Neurological Diseases
- E. Investigating Neurological Diseases
 - 1. Neuroimaging: CT and MRI
 - 2. Neurovascular Imaging
 - 3. EEG and Evoked Potentials
 - 4. Nerve Conduction Studies and Electromyography

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5. Lumbar Puncture and CSF Examination
6. Muscle and Nerve Biopsy
7. Neurophysiological evaluation
8. DNA Diagnosis

2. Clinical Manifestations of Neurological Diseases

- A. Pain: Pathophysiology and Management
- B. Headache
- C. Back and Neck pain
- D. Aphasia, Memory Loss and Other Higher Cerebral Disorders
- E. Acute Confusional States and Coma
- F. Dizziness, Syncope, and Vertigo
- G. Imbalance and Disorders of Gait
- H. Visual Disturbances
- I. Hydrocephalus and Brain Oedema
- J. Disorders of Taste, Smell, and Hearing
- K. Sleep Disorders

3. Diseases of the Central nervous System

- A. Seizures and Epilepsy
- B. Critical Care Neurology
- C. Concussion and Other Head Injuries
- D. Cerebrovascular Disorders including Subarachnoid Haemorrhage and Vascular Diseases of the Cerebral Veins/Sinuses and Spinal Cord
- E. Alzheimer's Disease and Other Dementias
- F. Parkinson's Disease and Other Movement Disorders
- G. Ataxic Disorders
- H. Amyotrophic Lateral Sclerosis and Other Motor Neurone Disorders
- I. Disorders of the Autonomic Nervous System
- J. Trigeminal Neuralgia and Neuropathy
- K. Bell's Palsy and Other Cranial Nerve Disorders
- L. Diseases of the Spinal Cord
- M. Primary and Metastatic Tumours of the Nervous System
- N. Neurological Disorders of the Pituitary and Hypothalamus
- O. Paraneoplastic Neurological Syndromes
- P. Multiple Sclerosis and Other Demyelinating Disorders
- Q. Meningitis, Encephalitis/Encephalopathy, Brain Abscess, and Empyema
- R. Chronic and Recurrent Meningitis
- S. HIV Neurology
- T. Prion Diseases

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान, सेवा आयोग
 प्राज्ञिक सेवा, इन्टर्नल मेडिसिन समूह, **Neurology** उपसमूह, सहायकप्राध्यापक पद, (नौ ख) (१ख) तहको
 खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम
 U. Head and Spinal Injuries
 V. Neurological Manifestations of Systemic Diseases

4. Diseases of the Nerves and Muscles

- A. Approach to the Patient with Peripheral Neuropathy
- B. Charcot-Marie-Tooth Disease and Other Hereditary Neuropathies
- C. Guillain-Barre Syndromes and Other Immune-Mediated Neuropathies
- D. Myasthenia Gravis and Other Diseases of the Neuromuscular Junctions
- E. Approach to a Patient with Muscle Disease
- F. Muscular Dystrophies and Other Muscular Diseases
- G. Idiopathic Inflammatory Myositis
- H. Metabolic and Mitochondrial Myopathies

5. Chronic Fatigue Syndrome

- A. Fibromyalgia
- B. Chronic Fatigue Syndrome

6. Psychiatric Disorders

- A. Mental Disorders

7. Alcoholism, Toxins and Drug Dependence

- A. Alcohol and Alcoholism
- B. Cocaine, Opioids, and Other Commonly Abused Drugs
- C. Neurological Complications of Cancer Chemotherapy

8. Neurological Rehabilitation

Following pattern will be used for formation of paper I & II as far as possible.

Paper I				
Part	Section	Weightage	No. Questions & Weightage	
			Objective Multiple Choice	Subjective
I	A	20		2 Questions X 10 Mark = 20
	B	30		3 Questions X 10 Mark = 30
II	C	25	25 Questions X 1 Mark = 25	
	D	25	25 Questions X 1 Mark = 25	
Paper II				
Section	Weightage	No. Questions & Weightage		
		Long answer	Critical Analysis	
A	45	3 Questions X 10 Mark = 30	1 Questions X 15 Mark = 15	
B	55	4 Questions X 10 Mark = 40	1 Questions X 15 Mark = 15	

--- The end ---