

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

स्वास्थ्य सेवा, मेडिसिन समूह, जनरल मेडिसिन उपसमूह, एघारौं (११) तहको खुला र आन्तरिक
प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

1. Pharmacology, poisoning and critical care medicine
 - 1.1. Principles of pharmacologic therapy
 - 1.2. Pharmacology of different medicines
 - 1.3. Acute and chronic poisoning and their management
 - 1.4. Principles of critical care medicine
 - 1.5. Oxygen delivery
 - 1.6. Major manifestations, monitoring and management of critical illness
 - 1.7. Nutrition
2. Infection
 - 2.1. Basic of infection
 - 2.2. Major manifestations of infections
 - 2.3. Principles of management of infection, including different antimicrobial agent and prevention of infection.
 - 2.4. Diseases due to different organism like virus, bacteria, protozoa, helminthes.
3. Diabetes and nutritional and metabolic disease and other endocrine disease
 - 3.1. Diabetes mellitus: Classification, epidemiology, aetiology, pathophysiology, clinical feature, diagnosis, management, acute and long-term complications of diabetes, special problems in management prospects in diabetes.
 - 3.2. Obesity
 - 3.3. Nutritional factors in health and disease
 - 3.4. Other metabolic disorders
 - 3.5. Thyroid disease: functional anatomy, physiology, investigation and major manifestations, management and prevention
 - 3.6. Other endocrine disease, including functional anatomy, physiology, investigations, major manifestations, management and prevention.
4. Cardiovascular system and disease
 - 4.1. Functional anatomy, physiology and investigations
 - 4.2. Major manifestation and heart disease
 - 4.3. Disorders of heart rate, rhythm and conduction
 - 4.4. Ischemic heart disease
 - 4.5. Vascular disease
 - 4.6. Diseases of heart valves
 - 4.7. Congenital heart diseases
 - 4.8. Diseases of the myocardium
 - 4.9. Diseases of the pericardium
 - 4.10. Diseases of Aorta and peripheral vascular diseases
5. Respiratory system and diseases
 - 5.1. Functional anatomy, physiology and investigations
 - 5.2. Major manifestations of lung disease

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- 5.3. Obstructive pulmonary diseases
- 5.4. Infections of the respiratory system
- 5.5. Tumors of the bronchus and lung
- 5.6. Interstitial and infiltrative pulmonary disease, including occupational lung disease
- 5.7. Pulmonary vascular disease
- 5.8. Diseases of the nasopharynx, larynx and trachea
- 5.9. Disease of the pleura, diaphragm and chest wall
6. Gastrointestinal & Hepatic system and diseases
 - 6.1. Functional anatomy, physiology and investigations
 - 6.2. Major manifestation of gastrointestinal and liver diseases
 - 6.3. Diseases of the mouth and salivary glands
 - 6.4. Diseases of the esophagus
 - 6.5. Diseases of the stomach and duodenum
 - 6.6. Diseases of the small intestine, colon, rectum and anal canal
 - 6.7. Diseases of the pancreas
 - 6.8. Diseases of the liver
 - 6.9. Gall bladder and other biliary diseases
 - 6.10. Disease of the peritoneal cavity
7. Water, electrolyte and acid-base balance and nephrology system and disorders
 - 7.1. Physiology and electrolytes, water and acid-base
 - 7.2. Major electrolyte and acid-base disorders
 - 7.3. Functional anatomy, physiology and investigations of the kidneys and urinary system
 - 7.4. Major manifestations of renal diseases
 - 7.5. Renal vascular diseases
 - 7.6. Glomerular diseases
 - 7.7. Tubulo-interstitial diseases
 - 7.8. Congenital abnormalities of the kidneys
 - 7.9. Renal involvement in systemic diseases
 - 7.10. Infections of the kidney and urinary tract
 - 7.11. Obstruction of the urinary tract
 - 7.12. Urinary tract calculi and nephrocalcinosis
 - 7.13. Drugs and the kidney
 - 7.14. Tumors of the kidney and genitourinary tract
 - 7.15. Renal Replacement Therapy
8. Haematological, immunological and joint, bone and connective tissue systems and related diseases
 - 8.1. Inflammation
 - 8.2. Organization and function of the immune system
 - 8.3. Hematopoiesis, physiology of the blood and clotting
 - 8.4. Investigations of diseases of the blood

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- 8.5. Major manifestations of blood related diseases
- 8.6. Anemias
- 8.7. Blood and Blood products
- 8.8. Transfusion Medicine
- 8.9. Lymphoproliferative and myeloproliferative disorders
- 8.10. Bleeding disorders
- 8.11. Venous thrombosis
- 8.12. Functional anatomy, physiology and investigation of the diseases of the connective tissues, joints and bones.
- 8.13. Diseases of the connective tissues, joints and bones
9. Nervous system and Psychiatric disorders
 - 9.1. Functional anatomy, physiology and investigations of neurology
 - 9.2. Major manifestations of nervous system and psychiatric disease
 - 9.3. Diseases of the nervous system
 - 9.4. Diseases of the spine and spinal cord
 - 9.5. Diseases of the nerves and muscles
 - 9.6. Classification and etiology of psychiatric disorders
 - 9.7. The clinical interview
 - 9.8. The psychiatric disorders and syndromes and their management
10. Genetics and Skin system and disorders
 - 10.1. Genetics and disease, particularly molecular features of infective disease
 - 10.2. Investigation of the molecular basics of disease
 - 10.3. Modern molecular methods in human disease
 - 10.4. Types of genetic disease
 - 10.5. Genetic factors in common diseases
 - 10.6. Epidemiology, etiology, clinical presentations, investigations and management of the malignant diseases.
 - 10.7. Functional anatomy and physiology of the skin
 - 10.8. Major manifestations and investigations of skin diseases
 - 10.9. Skin diseases
 - 10.10. The skin and systemic disease
11. Maternal Medicine
 - 11.1. Clinical examination in pregnancy
 - 11.2. Clinical evaluation in Maternal medicine
 - 11.3. Planning pregnancy in patients with medical conditions
 - 11.4. Functional anatomy and physiology
 - 11.5. Investigations
 - 11.6. Imaging
 - 11.7. Presenting problems in pregnancy
 - i Breathlessness
 - ii Chest pain

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- iii Circulatory collapse
- iv Headache
- v Nausea and vomiting
- vi Oedema
- vii Seizures

11.8. Medical disorders in pregnancy

- i Hypertension
- ii Respiratory disease
- iii Gastrointestinal disease
- iv Human immunodeficiency virus infection
- v Inflammatory rheumatic disease
- vi Cardiac disease
- vii Renal disease
- viii Liver disease
- ix Neurological disease
- x Psychiatric disorders
- xi Haematological disease
- xii Endocrine disorders

12. Adolescent and transition medicine

12.1. Transition from paediatric to adult health services

12.2. Functional anatomy and physiology

- i Endocrine changes
- ii Physical changes
- iii Cognitive and behavioural changes

12.3. Investigations

12.4. Clinical assessment

12.5. Presenting problems in transition medicine

- i Problems with adherence
- ii High risk behavior
- iii Unplanned pregnancy

12.6. Clinical Presentations

- i Neurological diseases
- ii Respiratory diseases
- iii Cardiovascular diseases
- iv Oncology
- v Renal disease
- vi Organ transplantation
- vii Diabetes
- viii Gastrointestinal diseases
- ix Rheumatology and bone diseases

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13. Ageing and disease
 - 13.1. Comprehensive Geriatric Assessment
 - 13.2. Demography
 - 13.3. Functional anatomy and physiology
 - i Biology of ageing
 - ii Physiological changes in ageing
 - iii Frailty and multimorbidity
 - 13.4. Investigations
 - i Comprehensive Geriatric Assessment
 - ii Decisions about investigation and treatment
 - 13.5. Presenting Problems in geriatric medicine
 - i Falls
 - ii Dizziness
 - iii Delirium
 - iv Urinary incontinence
 - v Prescribing and deprescribing
 - vi Other problems in old age
 - 13.6. Rehabilitation
14. Oncology
 - 14.1. Clinical examination of the cancer patient
 - 14.2. The 10 hallmarks of cancer
 - i Genome instability and mutation
 - ii Resisting cell death
 - iii Sustaining proliferative signalling
 - iv Evading growth suppressors
 - v Enabling replicative immortality
 - vi Inducing angiogenesis
 - vii Activating invasion and metastasis
 - viii Reprogramming energy metabolism
 - ix Tumor-promoting inflammation
 - x Evading immune destruction
 - 14.3. Environmental and genetic determinants of cancer
 - 14.4. Investigations
 - i Histology
 - ii Imaging
 - iii Biochemical markers
 - 14.5. Presenting problems in oncology
 - i Palpable mass
 - ii Weight loss and fever
 - iii Thromboembolism

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- iv Ectopic hormone production
- v Neurological paraneoplastic syndromes
- vi Cutaneous manifestations of cancer
- 14.6. Emergency complications of cancer
- 14.7. Metastatic disease
- 14.8. Therapeutics in oncology
 - i Surgical treatment
 - ii Systemic chemotherapy
 - iii Radiation therapy
 - iv Hormone therapy
 - v Immunotherapy
 - vi Biological therapies
 - vii Evaluation of treatment
 - viii Late toxicity of therapy
- 14.9. Specific cancers
 - i Breast cancer
 - ii Ovarian cancer
 - iii Endometrial cancer
 - iv Cervical cancer
 - v Head and neck tumors
 - vi Carcinoma of unknown origin
- 14.10. Multidisciplinary teams
- 15. Pain and palliative care
 - 15.1. Pain
 - i Functional anatomy and physiology
 - ii Investigations
 - iii Principles of management
 - iv Interventions
 - v Chronic pain syndromes
 - 15.2. Palliative care
 - i Presenting problems in palliative care
 - 1 Pain
 - 2 Breathlessness
 - 3 Cough
 - 4 Nausea and vomiting
 - 5 Gastrointestinal obstruction
 - 6 Weight loss
 - 7 Anxiety and depression
 - 8 Delirium and agitation
 - 9 Dehydration

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15.3. Death and Dying

16. Recent Advances in Medicine