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Subject	No. of Questions X Marks	Full Mark	Pass Mark	Time
Service Specific Technical Subject	5 Long questions X10=50 10 Short questions X5=50	100	50	3 hrs.

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1. Pharmacology, poisoning and critical care medicine

- 1.1. Principles of pharmacology 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 & dietetics

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 – Definition & management
- 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 as required for General Physicians

- 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 disease
- 4.8. Diseases of the myocardium
- 4.9. Diseases of the pericardium

5. Respiratory system and diseases as required for General Physicians

- 5.1. Functional anatomy, physiology and investigations
- 5.2. Major manifestations of lung disease
- 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. GI and liver system & diseases as required for General Physicians

- 6.1. Functional anatomy, physiology and investigations
- 6.2. Major manifestation of gastrointestinal and liver disease
- 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 as required for General Physicians

- 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 disease
- 7.5. Renal vascular disease
- 7.6. Glomerular disease
- 7.7. Tubulo-interstitial disease
- 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

8. Hematology, immunology and joint, bone and connective tissue system and disease

- 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
- 8.5. Major manifestations of blood diseases
- 8.6. Anemias
- 8.7. Lymphoproliferative and myeloproliferative disorders
- 8.8. Bleeding disorders
- 8.9. Venous thrombosis
- 8.10. Blood transfusion
- 8.11. Functional anatomy, physiology and investigation of the diseases of the connective tissues, joints and bones
- 8.12. Diseases of the connective tissues, joints and bones

9. Nervous system and Psychiatric disorders as required for General Physicians

- 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 psychiatry disorders and syndromes and their management

10. Genetics, Oncology & Palliative care, Geriatrics and Skin system and disorders as required for General Physicians

- 10.1. Genetics and disease, particularly molecular features of infective disease
- 10.2. Investigation of the molecular basis 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 oncology diseases
- 10.7. Palliative anticancer medicine
- 10.8. Normal ageing
- 10.9. Major manifestations of disease in frail older people
- 10.10. Rehabilitation
- 10.11. Functional anatomy and physiology of the skin
- 10.12. Major manifestations and investigations of skin disease
- 10.13. Skin diseases
- 10.14. The skin and systemic disease

11. Research and Paper publication

- 11.1. Planning and carrying out health research.
- 11.2. Methodology, design, variables, sampling, data collection, data entry, descriptive statistics, research reports, random number
- 11.3. Interpretation of the results of health research.
- 11.4. Bio-statistics, Probability, probability distributions, hypothesis tests, estimation, parametric and non-parametric statistics, regression and correlation, longitudinal studies
- 11.5. Dissemination of the results
- 11.6. Principles of paper publications and search and critical review of literature, types of papers, common headings, tables and graphs, reference writing
- 11.7. Medical ethics, including introduction to ethical theories, professional ethics, ethics in research, ethics in health policy

12. Medical education and training

- 12.1. General principles, curricular components, the fundamentals of educational process
- 12.2. Curriculum Development and Education Strategies
- 12.3. Identification of learning resources to meet the learning objectives,
- 12.4. Teaching/Learning Methods
- 12.5. Teaching-Learning Aids: Use of overhead projectors, slides, models etc in the teaching learning objectives
- 12.6. Classroom Presentation skills
- 12.7. Evaluation and Assessment of Learning: methods of evaluation, questions type

- 12.8 Organization, Management and Leadership
- 12.9 Continuing Professional Development (CPD)
- 12.10 Basics of Educational medicine
- 12.11 Evidence based medical practice
- 12.12 Problem oriented medical record
- 12.13 Communication and counseling in medicine

13. Acts/Regulations related to Health

- 13.1 Human organ transplant act, Consumer protection act
- 13.2 Nepal Health Sector Programme
- 13.3 Rational use of drugs, drug policies
- 13.4 NMC and National Health Agencies
- 13.5 Nepal Health Service Act, 2053 and Regulation, 2055

14. Epidemiology and control of communicable diseases

- 14.1 Public health and epidemiology
- 14.2 Problem and control of communicable disease, common terminology and principle
- 14.3 TB Control
- 14.4 HIV/AIDS control
- 14.5 Malaria control
- 14.6 Kala-azar control

15. Problem and control of non-communicable diseases and of accidents and poisoning

- 15.1 Epidemiology and control of IHD
- 15.2 Epidemiology and control of hypertension
- 15.3 Epidemiology and control of diabetes
- 15.4 Epidemiology and control of chronic respiratory disease
- 15.5 Epidemiology and control of cancers
- 15.6 Epidemiology and control of accident
- 15.7 Emergency preparedness & disaster management
- 15.8 Epidemiology and prevention of poisoning including snake bite, poison information and networking

16. High altitude physiology & medicine

- 16.1 High altitude acute & chronic sickness
- 16.2 High altitude pulmonary oedema
- 16.3 Physiological metabolic & hormonal changes in high altitude situation