Paper II: Technical Subject

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

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
   3.2. 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 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