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Paper II

Part I: General Subject

1. Research and Paper publication
 - 1.1. Planning and carrying out health research.
 - 1.2. Methodology, design, variables, sampling, data collection, data entry, descriptive statistics, research reports, random number.
 - 1.3. Interpretation of the results of health research.
 - 1.4. Bio-statistics, Probability, probability distributions, hypothesis tests, estimation, parametric and non-parametric statistics, regression and correlation, longitudinal studies.
 - 1.5. Dissemination of the results.
 - 1.6. Principles of paper publications and search and critical review of literature, types of papers, common headings, tables and graphs, reference writing
 - 1.7. Medical ethics, including introduction to ethical theories, medical ethics, professional ethics, ethics in research, ethics in health policy
2. Medical education and training
 - 2.1. General principal, curricular components, the fundamentals of educational process.
 - 2.2. Curriculum Development and Education Strategies
 - 2.3. Identification of learning resources to meet the learning objectives,
 - 2.4. Teaching/Learning Methods
 - 2.5. Teaching-Learning Aids: Use of overhead projectors, slides, models etc in the teaching learning objectives
 - 2.6. Classroom Presentation skills
 - 2.7. Evaluation and Assessment of Learning: methods of evaluation, questions type
 - 2.8. Organization, Management and Leadership
 - 2.9. Continuing Professional Development (CPD)
 - 2.10. Basics of Educational medicine.
 - 2.11. Evidence based medical practice
 - 2.12. Problem oriented medical record
3. Acts/Regulations related to Health
 - 3.1. Human organ transplant act, Consumer protection act
 - 3.2. Primary health care.
 - 3.3. Rational use of drugs, drug policies.
 - 3.4. NMC and National Health Agencies.
4. Epidemiology and control of communicable diseases:
 - 4.1. Public health and epidemiology.
 - 4.2. Problem and control of communicable disease, common terminology and principle.
 - 4.3. TB Control.

- 4.4. HIV/AIDS control.
- 4.5. Malaria control.
- 4.6. Kala-azar control.
- 5. Problem and control of non-communicable diseases and of accidents and poisoning:
 - 5.1. Epidemiology and control of IHD
 - 5.2. Epidemiology and control of hypertension
 - 5.3. Epidemiology and control of diabetes
 - 5.4. Epidemiology and control of chronic respiratory disease
 - 5.5. Epidemiology and control of cancers
 - 5.6. Epidemiology and control of accident
 - 5.7. Disaster management
 - 5.8. Epidemiology and prevention of poisoning including snake bite, poison information and networking.

Part 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
 - 3.1. 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 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