

## Paper II: Technical Subject

1. Growth and Development:
  - 1.1 Normal Growth and Development
  - 1.2 Disorders of Growth and Development
2. Nutrition:
  - 2.1 Normal nutrition in infancy and childhood - nutritional needs in health and disease state
  - 2.2 Common nutritional disorders in childhood - Malnutrition
  - 2.3 Nutrition supplementation -TPN
3. Concept of Preventive pediatrics
4. Genetics:
  - 4.1 Genetic and chromosomal disorders
  - 4.2 Inborn errors of metabolism
  - 4.3 Genetic counseling including antenatal diagnosis
5. Neonatology:
  - 5.1 Diagnosis, management and follow up of operative surgical congenital disorders including foetal disorders
  - 5.2 Diagnosis, management, prevention and follow up of acquired neonatal surgical disorders
  - 5.3 Organization of neonatal surgical care service in health institution up to tertiary level care
  - 5.4 Long term functional outcome of quality of life related to surgical condition
6. Management of pediatric surgical conditions:
  - 6.1 Gastro-intestinal system
  - 6.2 Genitourinary system
  - 6.3 Nervous system
  - 6.4 Respiratory system
  - 6.5 Cardiovascular system
  - 6.6 Orthopedics surgery
  - 6.7 Plastic surgery
  - 6.8 Condition related to skin, soft tissue and blood vessels
7. Infectious diseases:
  - 7.1 Diagnosis, management and follow up of common infectious diseases in the pediatric age group including HIV infection.
8. Pediatric surgical emergencies:
  - 8.1 Diagnosis and management of common pediatric surgical emergencies including trauma
  - 8.2 Pediatric anesthesia, ventilatory support, cardio-pulmonary support and stabilization
  - 8.3 Disaster: Planning and Management
9. Neoplastic disorders and tumors:
  - 9.1 Epidemiology of neoplastic diseases and solid tumours
  - 9.2 Principles of management of neoplastic diseases and solid tumours

10. Child psychiatry:
    - 10.1 Stress related to surgical problems
  11. Diagnostic procedures:
    - 11.1 Investigation techniques
      - 11.1.1 Diagnostic and interventional methods
      - 11.1.2 Interpretation
    - 11.2. Recent advances in diagnostic methods like CT, MRI, USG, radioisotope scanning
  12. Research methodology:
    - 12.1 Bio-statistics
    - 12.2 Basics in research methodology including search and critical review of medical & surgical literatures, selection of appropriate studydesign, analysis of findings and publications.
    - 12.3 Management of information system and medical audit
  13. Medical ethics:
    - 13.1 Medical ethics
    - 13.2 Professional ethics
    - 13.3 Ethics in research
    - 13.4 Ethics in health policy
  14. Recent advances in pediatric medicine and surgery
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