

DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR
(PAEDIATRIC SURGERY) (MEDICAL EDUCATION)

(Cat.No. : 035/2025)

[Total marks. 100]

1. GENERAL

[Marks.5]

- A. History of Pediatric Surgery
- B. Prenatal diagnosis and fetal therapy
- C. Neonatal physiology and metabolic considerations
- D. Nutritional support in Pediatric surgical patients
- E. Emerging diagnostic and surgical technologies in pediatric surgery

2. PEDIATRIC TRAUMA

[Marks.10]

- A. Burns
- B. Child abuse and birth injuries
- C. Blunt injury abdomen
- D. Thoracic injuries
- E. Genito urinary injuries

3. MAJOR PEDIATRIC TUMOURS

[Marks.15]

- A. Soft tissue sarcoma
- B. Neuroblastoma
- C. Wilms tumour
- D. Hepatic tumours
- E. Lymphomas
- F. Adrenal tumours

G. Testicular tumours

H. Ovarian tumours

4. PEDIATRIC TRANSPLANTATION
[Marks.5]

A. Principles of transplantation

B. Renal transplantation

C. Liver transplantation

D. Intestinal transplantation

5. HEAD AND NECK
[Marks.5]

A. Cleft lip and Cleft palate

B. Branchial anomalies

C. Cystic hygroma

D. Thyroglossal cyst

E. Torticollis

F. Cystic lesions floor of the mouth

6. THORAX
[Marks 15]

A. Congenital diaphragmatic hernia and eventration

B. Esophageal atresia

C. Congenital cyst adenomatoid malformation

D. Congenital lobar emphysema

E. Bronchopulmonary sequestration

F. Esophageal replacement

G. Achalasia cardia

H. Gastro esophageal reflux

I. Mediastinal masses

J. Foregut duplication and bronchogenic cyst

- K. Pleural collections – Pneumothorax, Pleural effusion, Empyema, Chylothorax
- L. Acute respiratory distress in newborn

7. ABDOMEN
[marks.20]

- A. Congenital defects of abdominal wall
- B. Infantile hypertrophic pyloric stenosis
- C. Gastric volvulus
- D. Duodenal atresia and annular pancreas
- E. Jejunoileal atresia
- F. Meconium ileus
- G. Ommphalo mesenteric duct lesions
- H. Intussusception
- I. Disorders of intestinal rotation and fixation
- J. Short bowel syndrome
- K. GIT bleed
- L. Intestinal duplication
- M. Mesenteric and omental cysts
- N. Polypoid disease of GIT in children
- O. Necrotizing enterocolitis
- P. Appendicitis
- Q. Hirshsprungs disease
- R. Anorectal malformations
- S. Biliary atresia
- T. Choledochal cyst
- U. Inflammatory bowel disease
- V. Approach to acute abdominal pain

8. GENITOURINARY DISORDERS
[Marks 20]

- A. Renal fusions and ectopia
- B. Cystic disease of kidney
- C. Ureteropelvic junction obstruction
- D. Urinary tract infections in children
- E. Vesico ureteric reflux
- F. Ureteral duplications and ureterocele
- G. Megaureter and prune belly syndrome
- H. Posterior urethral valve
- I. Bladder and cloacal exstrophy
- J. Hypospadias
- K. Disorders of bladder function
- L. Incontinent and continent urinary diversion
- M. Undescended testis

9. DISORDERS OF SEXUAL DEVELOPMENT

[Marks.3]

- A. Congenital adrenal hyperplasia
- B. Testicular feminization, Reifenstein syndrome, 5 Alpha reductase deficiency
- C. Complete gonadal dysgenesis, mixed gonadal dysgenesis
- D. True hermaphroditism

10. SPECIAL AREAS

[Marks.2]

- A. Conjoined twins
- B. Vascular anomalies

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.