

PAEDIATRIC SURGERY

PAPER-I

Time: 3 hours
Max. Marks: 100

PED.SURG 2/D/19/29/I

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) What are the clinical signs of hypoglycemia in a neonate? 2+3+4
b) Enumerate surgical and non-surgical causes of neonatal jaundice and discuss all baseline investigations with their interpretation.
c) Discuss mechanism and management of septic shock in a surgical neonate.

2. a) Discuss various manifestations of posterior urethral valves in utero. 3+2+5
b) Briefly discuss the role of creatinine in measurement of glomerular filtration rate in the first 2 years of life.
c) Discuss pathophysiology and management of acute renal failure in a post-operative surgical patient.

3. a) Enumerate radiographic findings in diaphragmatic injury. 2+4+4
b) Grade renal injuries. Discuss management protocol for urine extravasation and renal exploration.
c) Discuss clinical, radiological and surgical management of blunt injury to the trachea and bronchi.

4. a) Discuss pathophysiology of hemangiomas. 3+3+4
b) Discuss antenatal and neonatal management of neck masses.
c) How do you differentiate between venous and arteriovenous malformations? Discuss their management.

5. a) Enumerate cystic renal tumours. 2+4+2+2
b) Discuss similarities and differences between various treatment protocols used in Wilms' tumour in tabular format.
c) Briefly discuss management of relapse in Wilms' tumour.
d) What is bench surgery?

6. a) What is epignathus? Discuss its management. 2+3+5
b) Discuss long term outcome after excision of sacro-coccygeal teratoma.
c) Give classification and management of ovarian cysts and masses in pediatric age group.

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7. a) Mention pre-operative investigations and specific examination before renal transplantation in boys with posterior urethral valve and end stage renal disease. 3+3+4
b) What are the indications for liver transplantation in children with hepatoblastoma?
c) What are the different cohorts of patients with extrahepatic biliary atresia requiring liver transplant and their long term outcome?
8. a) What is the risk of testicular cancer in undescended testes? 2+3+2+3
b) Give classification and management of testicular germ cell tumours.
c) Role of testes preserving surgery in testicular tumours.
d) Discuss paratesticular tumours and their management.
9. a) What is a double blind study? 2+2+2+4
b) What is p value?
c) How do you calculate the sample size for a case control study?
d) Discuss the advantages and disadvantages between a prospective and a retrospective study.
10. a) Describe synchronized intermittent mandatory ventilation. 3+7
b) Describe in detail drugs used and ventilator modalities in children with congenital diaphragmatic hernia.
