

**PAEDIATRIC SURGERY**

PAPER – I

PED.SURG/J/17/29/I

Time : 3 hours

Max. Marks : 100

**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) Define MKI. 2+4+4  
b) Shimada prognostic classification of neuroblastoma.  
c) Biochemical tests to be performed in neuroblastoma for diagnosis and prognosis.
2. a) Enumerate any five trace elements. 2+(2+2)+4  
b) Mention clinical manifestations of deficiency and their role in metabolism (for any two trace elements).  
c) How will you calculate TPN (Total Parenteral Nutrition) for a surgical neonate?
3. a) Fetal circulation along with schematic representation. 5+2+3  
b) Enumerate three changes in circulation that happen at birth.  
c) Schematic representation highlighting the transition from fetal circulation to adult circulation.
4. Effect of surgery in context of a surgical neonate: 5+3+2  
a) Glucose metabolism  
b) Fat metabolism  
c) Protein and amino acids metabolism
5. Five phases of lung development. 2X5
6. a) Enumerate prognostic factors for a neonate with congenital diaphragmatic hernia (CDH). 5+5  
b) Paradigm shift in the management of CDH in the last 2 decade.
7. a) Nephron saving surgery in Wilms' tumor. 4+3+3  
b) Indications of nephron saving surgery.  
c) Contraindications of nephron saving surgery.

**P.T.O.**

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8. a) Impact factor of a medical journal. 2+2+5+1  
b) Case controlled studies.  
c) Five parameters to decide efficacy of any investigation.  
d) Citation Index.
9. Liver transplantation under following heads: 2+2+2+4  
a) Indications  
b) Assessment of liver transplant urgency  
c) Advances in surgical techniques  
d) Post operative immunosuppression
- 10 a) What is standard 4-view FAST examination? 2+4+3+1  
b) Grading of splenic injuries.  
c) Three common complications seen in patients managed conservatively for splenic trauma.  
d) What does OPSI stand for?

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