

**PEDIATRIC SURGERY****PAPER – I**

PED.SURG /D/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) What is unified hypothesis for necrotizing entero-colitis? 4+6  
b) Tabulate Bell staging criteria for NEC.
2. a) What is the principle behind 'pulse oximetry'? 3+(2+5)  
b) Enumerate the advantages and disadvantages of this monitoring system.
3. a) What do you understand by the term congenital cystic adenomatoid malformation of lung? 2+5+3  
b) Enumerate its characteristic features.  
c) What is its underlying pathogenesis?
4. a) WHO classification of ovarian tumors. 4+1+5  
b) Define tumour marker.  
c) Enumerate tumour markers and hormones associated with ovarian tumors and mention their role in clinical practice.
5. a) How do you calculate sample size for a research study? 4+2+2+2  
b) What is the difference between consent form and assent form?  
c) What is the difference between 'review article' and 'metanalysis'?  
d) Double-blinding in research studies.
6. a) Define proto-oncogene and tumor suppressor genes along with examples. 4+2+4  
b) Oncogenes in Wilms' tumour.  
c) Current management philosophy for Wilms' tumour.
7. a) Schwartz' formula for calculating glomerular filtration rate. 2+2+2+4  
b) Stages of chronic kidney disease.  
c) Indications for pediatric renal transplantation.  
d) Management of early graft rejection in renal transplant recipients.

P.T.O.

## PEDIATRIC SURGERY

## PAPER - I

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| 8.  | <ul style="list-style-type: none"> <li>a) General principles of treating hepatic trauma.</li> <li>b) Grading of hepatic trauma.</li> <li>c) Pringle's maneuver</li> <li>d) Management of hematobilia.</li> </ul>                               | 3+2+2+3 |
| 9.  | <ul style="list-style-type: none"> <li>a) Draw schematic representation of pathways of steroid hormone biosynthesis from cholesterol.</li> <li>b) Pathogenesis of congenital adrenal hyperplasia.</li> </ul>                                   | 5+5     |
| 10. | <ul style="list-style-type: none"> <li>a) What are two major theories about potential mechanisms of the pathogenesis of Hirschsprung's disease?</li> <li>b) Role of anorectal manometry in the diagnosis of Hirschsprung's disease.</li> </ul> | 6+4     |

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