

PAEDIATRIC SURGERY

PAPER – I

PED.SURG/D/15/29/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:

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| 1. | a) Define shock and enumerate the different types of shock. b) Cold shock and warm shock. c) When is shock termed “fluid refractory”? | 2+(3+3)+2 |
| 2. | What are the various components of APGAR score and how is it scored? Enumerate the neonatal pediatric surgical conditions demanding resuscitation alert. | 6+4 |
| 3. | a) Principle of SPECT (Single Photon Emission Computerized Tomography). b) Enlist the clinical situations where it can provide specific information. | 5+5 |
| 4. | What is the Battered Child syndrome? What are the injuries seen in children with this syndrome? | 5+5 |
| 5. | a) Metabolic complications in an infant with infantile hypertrophic pyloric stenosis. b) What is paradoxical aciduria? c) Preoperative resuscitation of a patient with infantile hypertrophic pyloric stenosis. | 4+2+4 |
| 6. | a) Extracorporeal Membrane Oxygenation (ECMO). b) Indications and contraindications for use of ECMO in a patient of congenital diaphragmatic hernia. | 4+6 |
| 7. | a) Classification of hepatoblastoma. b) PRETEXT staging of hepatoblastoma. | 5+5 |
| 8. | a) Enumerate the various types of stem cells. b) Fundamental principles in stem cell transplantation with particular reference to neurodysplasia of the spinal cord. | 4+6 |
| 9. | a) What is a Randomized Control Trial (RCT)? b) Advantages and disadvantages of RCTs over other commonly employed research methodologies. | 4+6 |
| 10. | Role of SRY, SOX-9 and the DAX-1 gene in sexual differentiation. | 10 |
