

PAEDIATRIC SURGERY

PAPER – I

PED.SURG/J/16/29/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) Mechanism of thermoregulation in newborns. 5+5
b) Complications related to hypothermia in neonates undergoing major surgery.
2. 3-D printing and its role in clinical medicine. 5+5
3. a) Define tumor markers. 2+8
b) Tumor markers of germ cell tumors.
4. a) Etiopathogenesis of abdominal compartment syndrome (ACS). 6+4
b) Principles of management of ACS.
5. a) Classification of sacrococcygeal teratoma. 5+5
b) What are the factors associated with relatively poor prognosis in patients with sacrococcygeal teratoma?
6. a) What is massive blood transfusion? 3+4+3
b) Enumerate its complications.
c) Autologous blood donation.
7. a) Indications for liver transplantation in the pediatric age-group. 6+4
b) Types of liver transplantation.
8. a) Classification of severity of brain injury in children by the modified Glasgow Coma Scale (GCS). 6+4
b) What are the limitations of assessment by the GCS in infants and young children?
9. Embryology of development of the diaphragm. 10
10. a) Define Mitosis-Karyorrhexis Index (MKI). 2+4+4
b) Modified Shimada prognostic classification of neuroblastoma.
c) Enumerate immuno-histochemistry and biochemical diagnosis of neuroblastoma.
