

PAEDIATRIC SURGERY

PAPER-I

PED SURG 2/D/18/29/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 are oligogenic disorders? 2+1+7
b) Which frequently seen surgical disease is due to oligogenic disorder?
c) Describe the molecular pathology of this disorder in detail.
2. a) What are the biochemical screening tools for diagnosis of fetal anomaly? 2+3+5
b) Provide a brief description of anomalies diagnosed by biochemical screening.
c) What is FASTER trial?
3. a) Define respiratory failure in children. 2+2+2+4
b) Enumerate the methods for diagnosing respiratory failure.
c) What is the formula for calculating the size of endotracheal tube?
d) Describe the management of respiratory failure in children.
4. a) What are the principles of resuscitation in an injured child? 5+5
b) Describe the parameters to assess the response of the child to resuscitation.
5. a) What is seat-belt sign? 1+3+4+2
b) What are mechanisms of pancreatic trauma in abdominal trauma?
c) Describe the clinical features in detail.
d) Enumerate the diagnostic tools for confirming the diagnosis of pancreatic trauma.
6. a) What is risk-stratification for pediatric solid tumours? 2+4+4
b) What are the criteria for risk-stratification in neuroblastoma?
c) Enumerate the principles of surgical management of neuroblastoma.

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7. a) Enlist the benign and malignant tumors of soft tissue in children. 2+4+2+2
b) Describe all the staging methods for rhabdomyosarcoma.
c) Enlist the histologic subtypes of rhabdomyosarcoma.
d) Enlist all the chemotherapeutic regimens for soft tissue sarcomas.
8. a) Enumerate the surgical conditions leading to end-stage renal failure in neonates and children. 2+2+6
b) Enlist the criteria for selection of donor kidney for renal transplantation.
c) Discuss the complications of renal transplantation in children.
9. a) Provide details of age wise maintenance fluid requirements in neonates and children. 2+2+6
b) What are the various fluid and electrolyte disturbances in children?
c) Write a brief note on acid-base imbalances with suitable examples and management algorithm of all the imbalances.
10. a) What do you mean by research methodology? 2+3+5
b) What are the types of research?
c) Provide details of the steps of research with suitable examples for each step in sample research study.
