

**PAEDIATRIC SURGERY (PART II /FINAL)****PAPER-I**Time: 3 hours  
Max. Marks:100

PED.SURG/D/20/29/I

**Important Instructions:**

- **You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.**
- **Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.**
- **No additional supplementary answer sheet booklet will be provided.**
- **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) Principle of Positron emission tomography (PET) imaging. 3+4+3  
b) Uses of Positron emission tomography (PET) imaging in Pediatric Surgery.  
c) Define molecular imaging and enumerate its two basic elements.
2. a) Write the International Neuroblastoma Staging System. 2+2+6  
b) Write the new International Neuroblastoma Risk Group Staging System.  
c) How do you treat symptomatic Stage IV S infant and explain the factors responsible for favourable prognosis?
3. a) Describe the ATLS method for initial assessment of an injured child. 4+2+2+2  
b) In case an injured child needs endotracheal intubation, what are the available methods to calculate the right size?  
c) Advantage of peritoneal lavage in blunt abdominal injury?  
d) What is "Pringle's maneuver and when is it useful?"
4. a) SCIWORA. 3+4+3  
b) Birth injuries.  
c) Enumerate the complications of non-operative treatment in abdominal trauma.
5. a) Classify burns with regards to present and previous nomenclature and depth of tissue involved. 4+4+2  
b) Pathophysiology of burns highlighting the local and systemic responses.  
c) Modified 'rules of nine' for pediatric burn patients with suitable diagrams.
6. a) Indications for intestinal transplantation. 3+4+3  
b) Enumerate the various preoperative assessments to be done for intestinal transplant.  
c) Enumerate the various types of intestinal transplant surgery.

**P.T.O.**

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7. a) Clinical presentation and initial evaluation for testicular tumor. 4+3+3  
b) Stages and extent of the disease in testicular tumor.  
c) Principles of surgery for malignant germ cell tumor.
8. a) Differences between case control studies and cohort studies using 4+2+2+2  
examples.  
b) Retrospective cohort studies.  
c) Difference between systemic review and meta-analysis.  
d) Difference between citation index and impact factor.
9. a) Enumerate the criteria of Systemic Inflammatory Response 4+4+2  
Syndrome in children.  
b) Pathogenesis of Systemic Inflammatory Response Syndrome, with  
the help of suitable diagram.  
c) Enumerate the risk factors for developing newborn sepsis.
10. a) Types of central venous access surgery in children. 2+4+4  
b) Surgical technique of chemo-port insertion.  
c) List some complications of chemo-port insertion.

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