

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

PEDSURG2/J/20/29/III

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:

- a) Principles, methodology, interpretation and drawbacks of Diuretic renal scintigraphy. 6+4
 - b) Principles of "Top Down" approach in evaluation of a child with recurrent UTI.
- a) 3D printing and its applications. 3+3+4
 - b) Nanotechnology applications in medicine.
 - c) Limitations of Robotic surgery in Paediatric surgery.
- a) Use of Botulinum toxin in bowel and bladder pathologies. 3+3+4
 - b) Role of pre-operative hormone therapy in hypospadias repair.
 - c) Current role of hormonal therapy in boys with undescended testis.
- a) What are the causes of portal hypertension in children? 2+3+5
 - b) What are the indications for surgery in cases of portal hypertension in children?
 - c) Different types of non-shunt and shunt operation for children with portal hypertension.
- a) Fetal circulation schematically. 2+4+4
 - b) Methods used to assess fetal anomaly.
 - c) Enumerate the fetal problems amenable to surgical correction before birth.
- a) What changes in bladder dynamics are expected in a patient with lumbosacral neural tube defects? 3+2+3+2
 - b) What is "hostile bladder dynamics"?
 - c) When are investigations done post meningomyelocele repair to assess bladder dynamics, and why?
 - d) What is the ultimate aim in treating bladder dysfunction in a child with neuropathic bladder?

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7. An otherwise healthy new born is brought to you with right side complete cleft of lip, alveolus and palate: 2+2+3+3
- a) How should the parents be counselled?
 - b) What are the present day guidelines as when to correct these deformities?
 - c) What are the goals for primary repair of cleft palate? What is the acceptable fistula rate following primary repair of palate?
 - d) What is Velo Pharyngeal Insufficiency (VPI), its effects and brief outline of management?
8. a) Indications of bladder augmentation in children. 2+4+4
- b) Merits and demerits of different segments of bowel/ tissues used for bladder augmentation.
- c) Short term and long term complications of bladder augmentation in children.
9. a) Different energy sources used in modern surgery highlighting their advantages and disadvantages. 6+4
- b) What are the uses of laser in pediatric surgery?
10. a) Classify congenital cystic malformations of lung. 2+3+5
- b) Antenatal diagnosis and prognostic factors for congenital cystic malformations of lung.
- c) Briefly outline their management.
