

PAEDIATRICS

PAPER – I

PED/J/17/31/I

Time : 3 hours
Max. Marks : 100

IMPORTANT INSTRUCTIONS

- *This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.*
- *Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.*
- *Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.*
- *Answer sheet(s) of Part 'A' and Part 'B' are not to be tagged together.*
- *Part 'A' and Part 'B' should be mentioned only on the covering page of the respective answer sheet(s).*
- *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:

PART A

1. a) Physiological function of Zinc in human body with special reference to immunity. 5+2+3
b) Role of Zinc in treatment of pediatric diarrhea.
c) Clinical features of acrodermatitis enteropathica.
2. a) Observational studies. 3+4+3
b) Meta analysis.
c) Assessing the validity of a diagnostic test.
3. a) Rota virus vaccines: dosage, schedule & side effects. 5+5
b) Mechanisms of antibiotic resistance.
4. a) Physiology of acid base homeostasis. 6+4
b) Enumerate the causes of metabolic acidosis on the basis of anion gap.
5. a) Setting up of Special Care Newborn Unit in a district hospital. 5+5
b) Tools used for developmental screening.

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Please read carefully the important instructions mentioned on Page ‘1’

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- *Answers to questions of Part ‘A’ attempted in answer sheet(s) of Part ‘B’ or vice versa shall not be evaluated.*

PART B

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|-----|------------------------------------------------------------------------------------------------------------|-------|
| 6. | a) Strategies to prevent mother to child transmission of HIV infection. | 5+5 |
| | b) Capsule based Nucleic Acid Amplification test (Gene Xpert) for tuberculosis. | |
| 7. | a) Draw a diagrammatic representation of the coagulation cascade. | 5+5 |
| | b) What is the etiopathogenesis of Vitamin K deficiency in infancy? | |
| 8. | a) Surfactant replacement therapy. | 5+5 |
| | b) Iron chelation therapy. | |
| 9. | Indications, mode of action and side effects of intravenous immunoglobulins (IVIgG) in pediatric practice. | 4+4+2 |
| 10. | a) Circulation of CSF. | 5+5 |
| | b) Enumerate various causes of hydrocephalus in children. | |
