

PAEDIATRICS

PAPER – I

PED/APRIL/16/31/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) Adrenal steroid hormone synthesis. 5+(2+3)
(b) Outline the biochemical consequences of defects in the classical 21-hydroxylase deficiency and its management.
2. (a) Structure of glomerulus with diagrammatic representation. 6+4
(b) What are the glomerular changes in rapidly progressive glomerulonephritis?
3. Enumerate the five high impact activities under RMNCH+A programme. 2+2+2+2+2
4. How is plasma osmolality calculated? Discuss its determinants. What are the diagnostic criteria of SIADH (Syndrome of inappropriate ADH secretion)? (3+4)+3
5. a) Steps to curb female infanticide. 5+5
b) Role of micronutrients in pediatric health and disease.
6. a) Virology and epidemiology of Swine-flu. (1+2)+3+(2+2)
b) How is the disease categorized according to Govt. of India guidelines?
c) Mention which children need to be immunized and who need to be given medication for the disease.
7. a) Evidence based medicine. 6+4
b) Forest plot in meta-analysis.
8. a) Clinical trials – Phase I, Phase II, Phase III & Phase IV. 5+5
b) Ethics in biomedical research.

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9. a) Laws of adoption in India. 4+6
b) Define translocation. Write the inheritance pattern for translocations. Describe clinical features of any one translocation disorder.
10. a) Enumerate 4 common neuronal migration disorders and their clinical features in brief. 6+4
b) Millennium Development Goals (MDG).
