Write short notes on:

1. (a) Adrenal steroid hormone synthesis.  
   (b) Outline the biochemical consequences of defects in the classical 21-hydroxylase deficiency and its management.  
   5+(2+3)

2. (a) Structure of glomerulus with diagrammatic representation.  
   (b) What are the glomerular changes in rapidly progressive glomerulonephritis?  
   6+4

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.  
    b) Role of micronutrients in pediatric health and disease.  
    5+5

6. a) Virology and epidemiology of Swine-flu.  
    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.  
    (1+2)+3+(2+2)

7. a) Evidence based medicine.  
    b) Forest plot in meta-analysis.  
    6+4

8. a) Clinical trials – Phase I, Phase II, Phase III & Phase IV.  
    b) Ethics in biomedical research.  
    5+5
PAEDIATRICS

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9. a) Laws of adoption in India.
    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.
    b) Millennium Development Goals (MDG).

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