NEPHROLOGY

PAPER – I

NEPHRO/J/17/20/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. Monoclonal antibodies in Nephrology: 2+3+5
   a) Basics of monoclonal antibodies.
   b) Diagnostic use in Nephrology.
   c) Therapeutic use in Nephrology.

2. Hypophosphatemia: Causes, clinical manifestations, investigations and treatment. 3+2+2+3

3. a) Classification of cystic kidney disorders. 3+4+3
   b) Manifestations and treatment of acquired cystic kidney disease.
   c) Extrarenal manifestations of ADPKD.

4. Role of gut microbiota in CKD: 3+4+3
   a) Normal gut flora.
   b) Dysbiosis in CKD.
   c) Role of probiotics and prebiotics in CKD.

5. a) Chronic kidney disease in obesity: Pathophysiology, manifestations and management. (2+2+2)+4
   b) Scleroderma renal crisis.

6. Lupus nephritis: 3+3+4
   a) Tubulointerstitial lesions.
   b) Vascular lesions.
   c) Pregnancy and lupus nephritis.

7. Risk factors for CKD: 5+5
   a) Non-modifiable risk factors.
   b) Modifiable risk factors.

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8. a) Juxtaglomerular apparatus: Anatomy & physiology. 6+4
   b) Trade off hypothesis in CKD.

9. a) Class I and II HLA molecules. 4+4+2
   b) Clinical significance of Class I and II HLA molecules in renal transplantation.
   c) Non-HLA antigens in renal transplantation.

10. a) Enumerate the non-parametric tests of significance. 4+6
    b) Utility and limitations of non-parametric tests of significance.

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