

**NEPHROLOGY**

**PAPER – I**

Time : 3 hours  
Max. Marks : 100

NEPHRO/D/17/20/I

**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. Euvolemic hyponatremia: 5+5  
a) Enumerate causes  
b) Management of SIADH
2. T-Regulatory cells: 4+6  
a) Normal function  
b) Role in renal transplantation
3. a) Functional iron deficiency anaemia 5+5  
b) Role of hepcidin in iron metabolism
4. a) Current status of biomarkers in glomerular diseases 5+5  
b) Study end-points in glomerular diseases
5. a) Causes of diuretic resistance 5+5  
b) Management of diuretic resistance
6. a) Role of FGF-23, Klotho & PTH axis in chronic kidney 5+5  
diseases.  
b) Changes in FGF-23 and PTH post transplant
7. a) Three-pore model of peritoneal membrane 5+5  
b) Concept of sodium sieving
8. a) Concept of urinary anion-gap 5+5  
b) Furosemide/Fludocortisone test for urinary acidification
9. a) Juxta-glomerular apparatus 5+5  
b) Role of tubuloglomerular feedback in health and  
disease
10. BK virus nephropathy: 5+5  
a) Role of BKV screening in pre and early post transplant  
period.  
b) Management of BK virus nephropathy.

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