

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 diseases. 5+5
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.
