

NEPHROLOGY

PAPER - I

NEPHRO/D/13/20/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 note on:

1. Peritoneal membrane is a semi permeable membrane. Discuss its:- 4+3+3
 - a) Structure
 - b) Blood supply
 - c) Role of lymphatics in peritoneal dialysis

2. 1+5+4
 - a) What is complement system?
 - b) Discuss the three complement pathways.
 - c) Enumerate four renal diseases associated with genetic dysfunction of complement pathways.

3. 4+3+3
 - a) Discuss the anatomy of podocyte.
 - b) Discuss pathobiology of podocyte injury.
 - c) What are the therapeutic implications of podocyte injury?

4. Discuss pathogenesis, preventive and therapeutic strategy of Adynamic Bone disease. 4+3+3

5. 3+3+4
 - a) Discuss glomerular diseases associated with HIV.
 - b) Outline treatment strategy of HIV associated nephropathy.
 - c) Discuss renal transplantation for a patient with chronic kidney disease stage 5 with HIV infection.

6. 7+3
 - a) Discuss genetics, pathogenesis and pathology of Alport's Syndrome.
 - b) Discuss Apolipoprotein L1.

7. 3+4+3
 - a) Discuss renin angiotensin aldosterone system.
 - b) What is its role in chronic kidney disease?
 - c) What are the implications of its blockade?

8. Discuss post transplant malignancies under the following heads: 4+2+4
 - a) Incidence
 - b) Risk factors
 - c) Management of lympho proliferative disorder

P.T.O.