**NEPHROLOGY**

**PAPER - 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:-
   a) Structure
   b) Blood supply
   c) Role of lymphatics in peritoneal dialysis  
   
2. a) What is complement system?  
   b) Discuss the three complement pathways.
   c) Enumerate four renal diseases associated with genetic dysfunction of complement pathways.  
   
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.  
   
5. 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. a) Discuss genetics, pathogenesis and pathology of Alport's Syndrome.
   b) Discuss Apolipoprotein L1.  
   
7. 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:
   a) Incidence
   b) Risk factors
   c) Management of lympho proliferative disorder  

P.T.O.