Nephrology

Paper - II

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.

1. a) Classify diuretics according to their mechanism of action.
   b) Enumerate diuretic use in non-edematous states.
   c) Discuss urea transport inhibitors.

2. a) Discuss the predictors of progression of diabetic nephropathy.
   b) What are SGLT-2 inhibitors and their adverse effects?
   c) Write histological classification of diabetic nephropathy and its relation with prognosis.

3. a) Discuss management of Hepatitis C infection in patients on hemodialysis.
   b) Discuss etiology and prevention of sudden cardiac death in dialysis patients.

4. a) Discuss handling of bicarbonate by nephron.
   b) Discuss the present status of sodium bicarbonate in chronic kidney disease.

5. a) What is belatacept?
   b) What is the current data regarding the use of belatacept in renal transplant

6. a) Discuss clinical features and etiology of peritonitis in peritoneal dialysis patient.
   b) Define relapsing and refractory peritonitis.

7. a) Discuss management of snake bite induced acute kidney injury.
   b) Discuss plant toxins causing acute kidney injury.

8. a) Discuss the pathogenesis of membranous glomerulonephritis.
   b) Discuss newer treatment strategies for membranous glomerulonephritis.

9. a) Discuss the diagnostic criteria of antibody mediated rejection.
   b) Write a protocol for management of antibody mediated rejection.
   c) Discuss solid phase assay for HLA antibody detection

10. a) What are renal manifestations of sickle cell disease?
     b) Discuss renal transplantation in patient with sickle cell nephropathy.

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Possession / use of cell phones or any such electronic gadgets is not permitted inside the examination hall.