

NEPHROLOGY

PAPER - II

NEPHRO/D/13/20/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. 3+4+3
b) Enumerate diuretic use in non-edematous states.
c) Discuss urea transport inhibitors.
2. a) Discuss the predictors of progression of diabetic nephropathy. 3+3+4
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. 5+5
b) Discuss etiology and prevention of sudden cardiac death in dialysis patients.
4. a) Discuss handling of bicarbonate by nephron. 3+7
b) Discuss the present status of sodium bicarbonate in chronic kidney disease.
5. a) What is belatacept? 3+7
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. 6+(2+2)
b) Define relapsing and refractory peritonitis.
7. a) Discuss management of snake bite induced acute kidney injury. 6+4
b) Discuss plant toxins causing acute kidney injury.
8. a) Discuss the pathogenesis of membranous glomerulonephritis. 5+5
b) Discuss newer treatment strategies for membranous glomerulonephritis.
9. a) Discuss the diagnostic criteria of antibody mediated rejection. 3+4+3
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? 5+5
b) Discuss renal transplantation in patient with sickle cell nephropathy.
