

NEPHROLOGY

PAPER – I

NEPH/D/15/20/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 notes on:

1.	Class - I HLA system under the following headings: a) Define class - I HLA system. b) Structure of class - I HLA. c) Clinical significance of class - I HLA in health and disease.	2 2 6
2.	Hyperkalemia under the following headings: a) Pathophysiology of complications of hyperkalemia. b) Immediate management. c) Newer antihyperkalemic agents.	4 2 4
3.	Renal diseases with their prevalence in: a) Rheumatoid arthritis. b) Sarcoidosis. c) Scleroderma.	3 3 4
4.	Vascular calcification in chronic kidney disease under the following heads: a) Pathology. b) Pathophysiology. c) Diagnosis.	3 5 2
5.	Management of chronic asymptomatic hyponatremia .	10
6.	a) Structure of the peritoneal membrane. b) Steps to preserve ultrafiltration capacity.	5 5
7.	Role of urine dipstick testing: a) Parameters tested. b) False positivity and negativity.	6 4
8.	a) Radionuclides used in Nephrology for imaging: Clinical usage and limitations. b) Role of PET scan in renal patients.	7 3
9.	a) Thin basement disease – diagnosis and outcome. b) Renal transplantation in Alport's disease.	5 5
10.	a) Type IV RTA. b) Secondary causes of renal tubular acidosis. c) Management of distal RTA.	3 4 3
