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NEPHROLOGY

PAPER-I

Time: 3 hours NEPH/J/19/20/I

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:

	71. 110.000 UIII	
1.	a) Uric acid handling in kidney.b) Management of hyperuricemia and gout in chronic kidney disease.	5+5
2.	Cystic kidney diseases: a) Classification. b) Pathogenesis of ADPKD.	3+7
3.	a) Epidemiology of acute kidney injury (AKI).b) Management of critically ill patient with AKI in an ICU setting.	6+4
4.	Complete urine analysis.	10
5.	Setting. Complete urine analysis. Renal Tubular Acidosis-Type IV: a) Pathophysiology b) Management	5+5
6.	a) Immunological evaluation of a patient with kidney disease.b) Complement cascade.	5+5
7.	Renal biopsy: a) Indications b) Handling of specimen c) Tissue staining methods and morphological assessment d) Role of electron microscopy in renal diseases.	2+2+3+3
8.	a) Nutrition assessment in CKD.b) DASH and Mediterranean Diet in CKD.	6+4
9.	a) Study designs, bias and confounding.b) RCTs in diabetic nephropathy.	5+5
10.	 a) Structure and functions of mesangium. b) Glomerular basement membrane: structure, age and sex variation. 	5+5