## **NEPHROLOGY**

## PAPER - I

NEPH/J/16/20/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.		Draw labeled diagram(s) glomerular basement membrane. Mechanisms of proteinuria.	4+6
2.		Draw and label the parts of the Juxta Glomerular Apparatus. Counter current multiplier system	4+6
3.	,	Transtubular Potassium Gradient. Fractional excretion of sodium.	5+5
4.	,	Diuretic resistance. Urinary anion gap.	7+3
5.		Pathogenesis of glomerular crescents. Antigens identified in glomerulonephritis.	5+5
6.	•	ndrome of inappropriate secretion of anti-diuretic hormone IADH): Etiology, diagnosis & management.	3+3+4
7.		Approach to renal biopsy in a patient on antiplatelet agents.  Mention the distinguishing histopathological features of primary versus secondary membranous nephropathy.	6+4
8.	a)	Draw a diagnostic algorithm for hypokalemic metabolic alkalosis.	5+5
	b)	Approach to a patient with hypercalcemia	
9.		C3 glomerulonephritis. Complement Membrane Attack Complex.	5+5
10.	,	Molecular genetics of Alport's syndrome. Genetics of autosomal dominant polycystic kidney disease.	5+5

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