NEPHROLOGY

PAPER - I

NEPHRO/D/16/20/I

Time : 3 hours Max. Marks : 100 Important instructions:

important instructions.

- Attempt all questions in order.
- Each question carries 10 marks.

phase II diabetes.

- 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.	a) Physiology of renal autoregulation.b) Relevance of renal autoregulation in clinical conditions, especially with AKI.	5+5
2.	Pododcyte: Structure, functions and its clinical significance in health & disease.	3+3+4
3.	Hypomagnesemia: Causes, manifestations, investigations and treatment.	4+2+2+2
4.	a) Development of kidney and urinary tract.b) Enumerate structural anomalies of kidneys.	8+2
5.	a) Pathophysiology of distal RTA.b) Clinical and metabolic consequences of RTA.	5+5
6.	a) Etiology of lactic acidosis.b) Approach to a patient with lactic acidosis.	5+5
7.	a) Common clinical research study designs.b) Phases in clinical trials.	5+5
8.	Vascular calcification in CKD: Pathogenesis, diagnosis and management.	3+4+3
9.	a) Methods of estimation of serum creatinineb) Methods of estimation of GFR.	2+8
10.	Moderately increased albuminuria in diabetes: a) Etiology b) Limitations c) Natural history in type II diabetes d) Clinical trials to prevent progression to macroalbuminuria in	2+3+3+2
