

QP Code:101504

Reg. No.:.....

**D.M. (Nephrology) Degree Regular/Supplementary Examinations
August 2022**

Paper I – Basic Sciences

Time: 3 hrs

Max marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Discuss the role of aldosterone in renal physiology and renal diseases.

Short essays: (8x10=80)

2. Syndrome of inappropriate anti-diuresis.
3. Acid-base and electrolyte abnormalities in decompensated chronic liver disease.
4. Physiological role of calcium-sensing receptors. Mention the diseases associated with their dysfunction.
5. Pathogenesis of glomerular hyper filtration in diabetic kidney disease.
6. Algorithmic approach to polyuria.
7. Anatomy of peritoneal membrane and mechanisms of transport of fluids and molecules across the peritoneal membrane.
8. Physiology of uromodulin and it's role in kidney diseases.
9. Unique features of renal medullary structure and functions.
