

QP Code:101504

Reg. No.:.....

**D.M. (Nephrology) Degree Regular/Supplementary Examinations
December 2025**

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. Describe the determinants of the glomerular filtration rate. Discuss the advantages and disadvantages of various methods used to determine the glomerular filtration rate

Short essays:

(8x10=80)

2. Complement and the kidney
3. Juxta-glomerular apparatus
4. Counter-current multiplier mechanism
5. Biology and role of Tamm-horsfall glycoprotein
6. Glomerulotubular balance and tubuloglomerular feedback
7. Anatomical and physiological changes that happen in pregnancy with regard to the kidney
8. Mechanism of renal acidification
9. Inherited disorders of hypophosphatemia
