

QP Code: 101103

Reg. No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD)
July 2025**

Paper I – General Biochemistry, Enzymes & Biostatistics

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. Elaborate the principles of Chromatography. Describe Ion Exchange Chromatography in detail.

Short essays: (8x10=80)

2. Explain types of radioactivity. Write the applications of radioactivity for diagnosis.
3. Describe the structural organization of proteins. How will you study the protein structure.
4. What is the difference between Haemoglobinopathies and Thalassemia. Describe any one of the Haemoglobinopathies in detail.
5. Describe the different types of Ion Channels. Add a note on clinical applications of Channels.
6. Explain the basic principles of Research methodology for study designing.
7. Explain the salient features of non-competitive enzyme inhibition using examples of poisons and toxins affecting human body.
8. Eicosanoids.
9. Non-functional plasma proteins.
