

QP Code: 101103

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Biochemistry
(MD) January 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. Discuss in detail the types and principles of the different types of chromatography and their diagnostic application

Short essays: (8x10=80)

2. Application of radio-isotopes in the study of metabolic pathways
3. Describe the structures and properties of phospholipids
4. Capillary Electrophoresis
5. Regulation of enzyme activities
6. Role of hemoglobin in acid-base balance and regulation of pH of blood
7. Establishment of biological reference interval in a population
8. Fractionation and analysis of subcellular organelles
9. Structure and post-translational processing of collagen
