

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

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