

QP Code: 101103

Reg. No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD)
November 2022**

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. Classify enzymes and give examples for each class. Add a note on different types of enzyme inhibitors with their salient features and examples of chemical significance.

Short essays:

(8x10=80)

2. Assessment of electrolyte and acid base disorders with a note on freezing point depression osmometer
3. Mean, Median, Mode, Standard deviation and Percentage CV with biomedical applications
4. General structure and functions of immunoglobulins
5. Principle, instrumentation and biomedical applications of mass spectrometry
6. Phospholipids - Examples with their structure and biomedical importance
7. Reference interval, clinical decision limits and strategies for selection of reference individuals
8. Principle of high-performance liquid chromatography with their biomedical applications and limitations
9. Structural organization of proteins
