QP Code: 101383 Reg. No.......

First Year M.Sc. MLT Degree Regular/Supplementary Examinations October 2023 (Biochemistry)

Paper I - General Biochemistry & Chemistry of Biomolecules

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 diagrams wherever necessary

Essays: (10x10=100)

- 1. Classification, chemistry and importance of polysaccharides. (5+5)
- 2. Write in detail about anticoagulants and preservatives used in routine laboratory practice. (5+5)
- 3. High performance liquid chromatography.
- 4. What are transport mechanisms across biomembranes. Write in detail about active transport mechanism. (4+6)
- 5. What are radioisotopes. Mention about its application in clinical biochemistry and research. (2+8)
- 6. The structure and functions of mitochondria. (5+5)
- 7. Discuss the various techniques of water purification.
- 8. Write in detail about properties of purines and pyrimidines nucleotides.
- 9. What are phospholipids. Discuss the actions of phospholipases.
- 10. What are buffers. Mention the composition of buffer and mention the factors affecting the pH of a buffer. (3+7)
