

QP Code: 101383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
August 2024
(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. Discuss in detail the processes used to prepare reagent grade water.
2. Describe the fluid mosaic model of cell membranes.
3. What are the different types of centrifuges used in the clinical laboratory. Explain the principle of centrifugation. (4+6)
4. Discuss the various chemical hazards in a clinical laboratory.
5. Urine preservatives
6. Discuss in detail the secondary structure of proteins.
7. Classify amino acids based on structure.
8. Isomerism in sugars
9. Explain resolution in chromatography. Discuss the factors affecting resolution. (4+6)
10. Discuss in detail the technique of nephelometry.
