

QP Code: 101383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations  
July 2025  
(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 classification of lipids.
2. Write in detail the various support media used in electrophoresis.
3. Colligative properties of water.
4. Describe enzyme based biosensors with amperometric detection.
5. Discuss in detail about gas chromatography.
6. Ultracentrifugation.
7. Discuss the various parameters tested for ensuring the performance of a spectrophotometer.
8. Define primary structure of a protein. List the characteristics of peptide bond. Describe the primary structure of insulin. (2+3+5)
9. Discuss in detail the higher organisation of DNA.
10. Discuss the various anticoagulants and preservatives for blood.

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