

QP Code: 101383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
April 2021
(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. What are buffers. Give an account of buffers and buffering mechanisms in the body.
2. Discuss the physical properties of Donnan membrane equilibrium, dialysis and diffusion. Give their applications in medical field.
3. Describe biomedical waste disposal practices as per existing regulations.
4. Classify carbohydrates. Add a note on different types of isomerisms exhibited by monosaccharides.
5. Briefly describe chromosomes and genes.
6. Discuss different interferences that may happen during specimen collection. Add a note on preservatives used in laboratory.
7. Discuss the chemical properties of monosaccharides.
8. Discuss the principle and applications of fluorimetry.
9. Discuss the properties of water enabling it as a universal solvent.
10. Discuss fractional distillation and its applications.
