

**QP Code: 101383**

**Reg. No.....**

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations  
December 2019  
(Biochemistry)**

**Paper I - General Biochemistry & Chemistry of Biomolecules**

**Time: 3 hrs.**

**Max. marks: 100**

- **Answer all questions**
- **Draw diagrams wherever necessary**

**Essays:**

**(10x10=100)**

1. Give principle and biochemical applications of osmosis. Add a note on osmolality.
2. Enumerate different levels of protein structure. Describe secondary structure in detail.
3. Discuss SI units and non SI units used in clinical chemistry.
4. Discuss phospholipids in terms of basic structure, types and functions.
5. Discuss the adsorption and partition coefficient and their applications in medical laboratory technology.
6. Serum protein electrophoresis and interpretations
7. Give an account of membrane transport.
8. Define pH and describe the measurement of pH of biological fluids.
9. Give an account of spectrophotometry.
10. Enumerate any six nucleotides and discuss their functions in our body.

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