

QP Code : 101383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – January 2014
(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. Explain the principle and instrumentation of flame photometer.
2. Discuss the various levels of organization of proteins with suitable example.
3. What are phospholipids. Discuss the structure and functions of phospholipids.
4. Explain anomerism of sugars and write the practical importance of mutarotation.
5. What is electrophoresis. Mention the factors affecting it and discuss about PAGE.
6. Describe the fluid mosaic model of membrane and add a note on membrane proteins.
7. Discuss the regulations and precautions regarding the transport of biological specimens.
8. What are the different types of centrifuges. Mention the principle and working of centrifuge.
9. What is radio activity. Describe the applications of radio activity in clinical chemistry and research.
10. Draw the structure of purines and pyrimidines and mark the atoms in the ring structure contributed by various molecules. Add a note on functions of nucleotides.
