

QP Code : 101383

Reg . No.....

**First Year M.Sc.MLT Degree Examinations - February 2013
(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 structure of a eukaryotic cell with help of a labelled diagram. Mention the functions of sub cellular organelle.
2. Explain the techniques of phlebotomy and add a note on anticoagulants used
3. Enumerate the role of radioisotopes in medicine giving suitable examples
4. Explain the Watson and Crick model of DNA structure. Mention how DNA is organized in the nucleus.
5. Classify the lipids with examples. Mention the functions of dietary lipids
6. Describe anomerism and epimerism with examples and draw structures
7. Explain the general principle of electrophoresis. Enumerate the applications of agarose gel electrophoresis of serum proteins
8. Explain the principle and instrumentation of flame photometry. Add a note on its applications.
9. Classify the proteins according to their functions. Explain protein denaturation
10. Discuss the principle and applications of ion exchange chromatography.
