

QP Code : 101383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – November 2015  
(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 and functions of plasma membrane
2. Explain the principle of fluorimetry, and its instrumentation . Add a note on the applications of this technique.
3. Classify the lipids with examples. Mention the functions of lipids.
4. Describe the measurement of radioactivity. Add a note on disposal of radioactive materials
5. Name the major purine and pyrimidine bases; enumerate the nucleosides and nucleotides formed from these bases . Add a note on functions of free nucleotides.
6. What are buffers . Explain the preparation of 0.1 M phosphate buffer of pH 7.4.
7. How are the sub cellular organelle fractionated . Outline the process with a diagram and add a note on marker enzymes for sub cellular organelle.
8. Explain the structural organization of proteins with appropriate examples .
9. Explain the general principle of chromatography. Explain the principle of partition chromatography and add a note on its applications
10. Name the types of RNA , explain its structure and functions.

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