

QP Code : 101383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – October 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 structure of a eukaryotic cell , with a labeled diagram .Enumerate the functions of sub cellular organelle. (5+5)
2. Explain the principle of flame photometry, and its instrumentation. Add a note on the applications of this technique. (4+3+3)
3. Categorize the biomedical waste. Explain the methods of disposal of biomedical waste. (2+8)
4. Mention the salient features of double helical structure of DNA, explain the nuclear organization of DNA
5. Classify the carbohydrates with examples and add a note on anomerism. (7+3)
6. Classify the proteins based on its functions and mention two examples for each class.
7. Explain the applications of radioisotopes in clinical biochemistry.
8. Explain the technique of venipuncture and add a note on anti coagulants.
9. Explain the general principle of electrophoresis . Mention the various types of electrophoresis and its applications. (3+3+4)
10. Describe the chemiluminescence technique and add a note on its applications.
