

QP CODE: 103012

Reg. No:.....

**First Year B.Sc MLT Degree Supplementary Examinations
December 2023
Biochemistry
(Common for 2010, 2012 and 2015 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary.

Essay

(2x10=20)

1. Write the preparation and specific uses of anticoagulants. What are the procedures to be followed for collection and transport of infective specimens.
2. Describe the laboratory hazards and universal safety precautions.

Short notes

(10x5=50)

3. Describe the collection and preservation of urine specimens.
4. Write the principle and application of, spectrophotometry
5. Mucopolysaccharides
6. Draw a diagram of tRNA, write the functions of the various arms.
7. Nucleoproteins
8. Detection and measurements of radioactivity
9. Theory of Indicators
10. Structure and functions of lysosome.
11. Properties of emulsions
12. Triglycerides

Answer briefly

(10x3=30)

13. Henderson Hasselbach equation
14. What is primary standard. Give a suitable example.
15. Preparation of normal solutions
16. Cold centrifuge
17. Write the principles of colorimetry
18. Chemistry and properties of disaccharides
19. Quaternary structure of proteins
20. Ninhydrin reaction.
21. Saponification number
22. Nucleic acids
