

First Year B.Sc MLT Degree Supplementary Examinations June 2025
Biochemistry - I
(2016 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*
- *Simple calculator shall only be permitted*

Essay**(2x10=20)**

1. Briefly describe Watson-Crick model of DNA structure. Add a note on nucleosomes (7+3)
2. Define Beer and Lambert's law. Explain in detail the different parts of a spectrophotometer. (2+8)

Short notes**(10x5=50)**

3. t RNA
4. Mitochondria
5. Blood buffers
6. Centrifuge machine
7. Blood collection tubes
8. Properties of fatty acids
9. Stereoisomers of glucose
10. Tertiary structure of proteins
11. Applications of radioisotopes
12. Sequence analysis of proteins

Answer briefly**(10x3=30)**

13. Sucrose
14. Desiccator
15. Liposomes
16. Epimers
17. Biuret reaction
18. Iodine number
19. Structural proteins
20. Nucleoprotein
21. Poly unsaturated fatty acids
22. Lipoproteins.
