

**First Year B.Sc MLT Degree Supplementary Examinations  
February 2020**

**Biochemistry**

**(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.*

**Essay****(2x10=20)**

1. Discuss the collection, preservation and processing of biological specimens for biochemical analysis. (4+3+3)
2. Explain fluid mosaic model of cell membrane. Briefly describe cellular transport. (5+5)

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

3. Structure of DNA
4. How lipids are digested
5. Lipoproteins
6. Osmosis
7. Vortex mixer
8. Principles of radioactivity
9. Centrifuge
10. Polysaccharides
11. Spectrophotometry
12. Preparation and storage of distilled water.

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

13. Unsaturated fatty acids.
14. Epimers
15. Rancidity
16. Donnan membrane equilibrium
17. Ionization of water
18. Composition of borosilicate glass wares
19. Desiccators
20. Classification of proteins
21. Indicators
22. Phospholipids