

**First Year B.Sc MLT Degree Regular/Supplementary Examinations**  
**March 2022**  
**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. Describe the principles of Colorimetry. Describe the parts and functioning of a colorimeter. (4+6)
2. How lipids are digested and absorbed (7+3)

**Short notes**

**(10x5=50)**

3. Centrifuge
4. Care of laboratory glass ware
5. Structural proteins
6. First aids in laboratory
7. Transport mechanism across biomembrane
8. Osmosis
9. Preparation and storage of deionised water
10. Collection of urine sample
11. pH meters.
12. Electrical hazards in laboratory and safety measures to be taken

**Answer briefly**

**(10x3=30)**

13. Polysaccharides
14. Electronic balance
15. Epimers
16. Viscosity
17. Nucleotides
18. Tertiary structure of protein
19. Detection of radioactivity
20. Henderson Hassel Bach Equation.
21. Use of flourimetry
22. Magnetic stirrer

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