

QP CODE: 103012

Reg No:.....

First B.Sc MLT Degree Supplementary Examinations, March 2013

BIOCHEMISTRY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Explain the fluid mosaic model of biological membrane with the help of a diagram.
Add a note on active transport
2. Classify lipids giving suitable examples. Add a note on digestion and absorption of lipids.

Short notes

(10x5=50)

3. Blood buffers
4. Watson - Crick model of DNA
5. Mucopolysaccharides
6. Spectrophotometer
7. Secondary structure of proteins
8. Radioisotopes and their applications
9. Laboratory hazards and safety measures.
10. Glycoproteins
11. Nephelometry and its applications
12. Disaccharides

Answer briefly

(10x3=30)

13. Structure and functions of mitochondria
14. Anticoagulants
15. Reactions of monosaccharides
16. Conjugated proteins
17. Electronic balance
18. Donnan membrane equilibrium and its applications.
19. Essential amino acids
20. Non-protein nitrogenous substances
21. • Linkage in sucrose • Why Benedict's test is called semi quantitative
 - Ring present tryptophan
22. How much sodium hydroxide is required to prepare 1 litre of 1.5 N sodium hydroxide solution.
