

First Year B.Sc MLT Degree Examinations September 2018

Biochemistry

(2016 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all questions.
- Draw diagrams wherever necessary.

Essay**(2x10=20)**

1. What is the principle of colorimetry. Enumerate the components of a photo electric colorimeter with the role of each component. How does it differ from a soetro-photo meter. (2+5+3)
2. Classify proteins and mention the various functions of proteins. Discuss the elucidation of secondary structure of proteins. (2+4+4)

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

3. Dialysis
4. pH meter.
5. Meister's cycle.
6. Glycosaminoglycans.
7. Radioimmunoassay .
8. Assess purity of water.
9. Digestion and absorption of lipids.
10. Atomic absorption spectrophotometry.
11. Care and maintenance of glass ware.
12. Partition coefficient and its application to biological system.

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

13. Osmosis.
14. Pyrimidines.
15. Peroxisomes
16. Vortex mixer.
17. Diagnostic kit.
18. Racemic mixture
19. Essential fatty acids.
20. Electrical balances.
21. Interference in flame photometry.
22. Define molality. Mention the procedure for preparation of 500ml. of 1 Molal NaOH.
