

First Year B.Sc MLT Degree Regular/Supplementary Examinations
August 2019

Biochemistry

(2016 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all questions.
- Draw diagrams wherever necessary.

Essay

(2x10=20)

1. Classify lipids with examples. Discuss the properties and biochemical functions of fatty acids. (5+3+2)
2. Enumerate the anticoagulants. Discuss their preparation and uses. (4+4+2)

Short notes

(10x5=50)

3. Flame photometry
4. Henderson-Hasselbach equation.
5. Stereoisomerism.
6. Urine preservatives.
7. Preparation of reagent grade water.
8. Lipoproteins
9. Functions of albumin
10. Absorption of amino acids.
11. Structure of bio membranes.
12. Describe the different types of weighing balances.

Answer briefly

(10x3=30)

13. Rancidity of fats
14. Secondary standards
15. Principle of atomic absorption spectroscopy
16. Osazone test for monosaccharides
17. Write the procedure for preparing 100ml of 0.1N sodium hydroxide.
18. Saponification number.
19. Biochemical role of cholesterol.
20. Applications of radioactivity.
21. Give the structural representation for epimers of glucose.
22. Enumerate three functions of nucleotides.
