

Second Year B.Sc MLT Degree Supplementary Examinations
January 2022

Biochemistry - II

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 Diagrams wherever necessary.

Essay

(2x10=20)

1. Enumerate three organic constituents of urine and describe the formation and estimation of any one
2. Classify lipoproteins. Describe the metabolism of chylomicrons.

Short notes

(10x5=50)

3. Substrate level phosphorylation.
4. Atherosclerosis.
5. Describe the metabolic fate of pyruvate.
6. Enumerate the biochemical functions of Vitamin C.
7. Describe the deficiency manifestations of Vitamin A.
8. Alkaptonuria.
9. Nitrogen balance.
10. Bile Acid formation and functions.
11. Lipotropic factors.
12. Synthesis of catecholamines.

Answer briefly

(10x3=30)

13. Write the enzyme deficient in the following conditions.
 - Galactosemia • Pentosuria • Essential fructosuria • Lesch Nyhan Syndrome
 - Homocystinuria • Maple Syrup Urine Disease
14. Test for blood in urine
15. ATP Synthesis
16. Obesity
17. Functions of albumin
18. Glucose challenge test
19. Starvation Ketosis
20. Cori cycle
21. Explain SAM. What is its significance
22. Glycemic index