

Second Year B.Sc MLT Degree Supplementary Examinations July 2025

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. Discuss in detail the regulation of blood glucose in our body. Add a note on the enzymatic methods of glucose estimation. (6+4)
2. Discuss the sources, daily requirement and biochemical functions of Vitamin C. Write briefly about the deficiency manifestations and methods for estimation of Vitamin C.

(1+1+4+2+2)**(10x5=50)****Short notes**

3. Significance of HMP shunt pathway
4. Obesity
5. Nitrogen Balance
6. Important specialised products from Tyrosine
7. Fate of Pyruvate
8. Phenylketonuria
9. Degradation of purines
10. Biochemical functions of Pyridoxal Phosphate
11. Dietary fibres
12. Frederickson's classification of hyperlipoproteinemias.

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

13. Lipotropic factors
14. Deficiency manifestations of Vitamin A
15. Uncouplers of oxidative phosphorylation
16. Sampling and storage of specimen for lipid profile
17. Anaplerotic role of TCA cycle
18. Non carbohydrate reducing substances in urine
19. Glutathione
20. Urine Protein Creatinine Ratio
21. Berthelot reaction
22. Maple syrup Urine Disease