

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
April 2023**

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 sampling, storage, estimation of blood glucose. Add a note on glucose tolerance tests. (2+2+4+2)
2. Discuss the biochemical role, deficiency manifestations and estimation of vitamin A. (3+3+4)

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

3. Pellagra
4. Hexose monophosphate pathway
5. Rickets
6. Diabetic keto acidosis
7. Discuss the tests used to detect organic constituents of urine
8. Composition and chemical analysis of cerebrospinal fluid
9. Glycogen storage disorders
10. Tricarboxylic acid cycle
11. Fatty liver
12. Discuss steps, regulation, and energetics of oxidation of palmitic acid.

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

13. Lesch nyhan syndrome
14. Substrate level phosphorylation
15. Homocysteinuria
16. Marasmus
17. Proteinuria
18. Write reference value and principle of estimation of serum creatinine.
19. Prostaglandins
20. Mention any two phospholipids and their functions
21. Ehrlich's test
22. Scurvy