

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
December 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 sampling, storage, estimation of Cholesterol and Triglyceride. Add a note on Lipid profile (2+2+4+2)
2. What is the normal fasting plasma glucose level. What are the mechanisms by which normal range is maintained (1+9)

Short notes

(10x5=50)

3. Gout
4. HDL metabolism
5. Maple syrup urine disease
6. Products formed from glycine
7. Complications of diabetes mellitus
8. Composition and chemical analysis of amniotic fluid
9. Deficiency manifestations of Vitamin A
10. Urea cycle
11. Galactosemia
12. Coenzyme function of Niacin

Answer briefly

(10x3=30)

13. Hypoglycemia
14. Obesity
15. PUFA
16. Salvage pathway of purine synthesis
17. Alkaptonuria
18. Folate trap
19. Ketogenesis
20. Write reference value and principle of estimation of blood creatinine
21. Gaucher's disease
22. Biotin requiring reactions