

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
January 2024**

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 Total protein and albumin. Add a note on proteinuria. (2+2+4+2)
2. Discuss the sources, RDA, biochemical role, deficiency manifestations and estimation of Retinol. (1+1+2+2+4)

Short notes

(10x5=50)

3. Gout
4. Glycogen storage disorders
5. Pellagra
6. Bile acids.
7. Discuss the tests used to detect abnormal constituents of urine
8. Composition and chemical analysis of amniotic fluid
9. Urea cycle
10. Oxidative phosphorylation
11. Fatty acid synthase complex
12. Phenyl ketonuria

Answer briefly

(10x3=30)

13. Glycosylated hemoglobin
14. Obesity
15. Galactosemia
16. Kwashiorkar
17. Glycosuria
18. Write reference value and principle of estimation of blood urea
19. Polyamines
20. Sphingophospholipids
21. Glucose tolerance test
22. Estimation of protein in C.S.F