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## Second Year B.Sc MLT Degree Regular/Supplementary Examinations January 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 the sources, requirement, biochemical effects and estimation of Vitamin D3. (1+2+3+4)

2. Discuss in detail the biosynthesis of triglycerides. Add a note on the sampling and estimation of serum triglycerides. (5+2+3)

Short notes (10x5=50)

- 3. Metabolic derangements in Diabetes Mellitus
- 4. Lipotropic factors
- 5. Biochemical functions of Thiamine
- 6. Nutritional indices
- 7. Glycogen Storage Disorders
- 8. Chylomicrons
- 9. Chemiosmotic theory
- 10. Homocystinurias
- 11. Transdeamination
- 12. Role of Carnitine in beta oxidation of fatty acids

Answer briefly (10x3=30)

- 13. Cori's cycle
- 14. Polyunsaturated fatty acids
- 15. Important compounds formed from Glycine
- 16. Enzymatic methods of Creatinine estimation
- 17. Advantages of HbA1c estimation
- 18. Kwashiorkor
- 19. Substrate level phosphorylation
- 20. Wald's visual cycle
- 21. Lesch Nyhan syndrome
- 22. FIGLU excretion test

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