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# Second Year B.Sc MLT Degree Regular/Supplementary Examinations May 2022

# **Biochemistry - II**

### Time: 3 Hours

- 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.

#### Essav

- 1. Discuss in detail the sampling, storage and estimation of lipid profile parameters. (2+2+6)
- 2. Discuss the biochemical role of Vitamin D and its estimation. Add a note on the deficiency. (3+4+3)

#### Short notes

- Enumerate the salient differences between substrate level phosphorylation and oxidative phosphorylation. Give two examples for substrate level phosphorylation.
- 4. Urea cycle
- 5. Gout
- 6. Glucose-alanine cycle
- Reducing sugars in urine
- 8. Enumerate the ketone bodies. Describe their estimation in blood and urine
- 9. Test for protein in urine
- 10. Beta oxidation of palmitic acid
- 11. Transamination
- 12. Synthesis of creatinine and describe the method of estimation

## Answer briefly

- 13. Define hypoglycemia. List two conditions resulting in hypoglycemia
- 14. List three differences between Marasmus and Kwashiorkor
- 15. How is specific gravity of urine measured. What is the reference range
- 16. Define BMR. What are the factors affecting BMR
- 17. Ehrlich's Test
- 18. Enumerate the tests done for detection of phenyl ketonuria
- 19. Biochemical role of Vitamin K
- 20. Name two sphingolipidoses and their salient features
- 21. Foam test
- 22. Orotic aciduria

(10x3=30)

(2x10=20)

(10x5=50)

Total Marks: 100

Reg. No: .....