

**Second Year B.Sc MLT Degree Supplementary Examinations
April (December), 2020**

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 formation of ammonia in the human body. How is ammonia detoxified.
2. Discuss the formation and fate of cholesterol.

Short notes

(10x5=50)

3. Fatty liver
4. Describe the composition and chemical analysis of CSF.
5. Describe the clinical manifestation and biochemical findings of Diabetic Ketoacidosis.
6. Classify eicosanoids. Enumerate the functions of prostaglandins.
7. Define glycolysis. Describe the steps in anaerobic glycolysis.
8. Enumerate the organic constituents of urine and describe the estimation of any one of them.
9. What is the biochemical significance of carnitine.
10. Chemiosmotic hypothesis
11. Salvage pathway of purine metabolism.
12. Glucose tolerance tests.

Answer briefly

(10x3=30)

13. Glycated hemoglobin
14. Significance of Glucuronic acid pathway in humans
15. Cardiolipin
16. Walds' visual cycle
17. Biochemical function of thiamine
18. Specific gravity of urine
19. Marasmus
20. Hartnup's disease
21. Albumin, globulin ratio
22. Bence Jone's protein