

**Second Year B.Sc MLT Degree Supplementary Examinations
September 2023
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 synthesis, reference values and estimation of Serum and urine creatinine. (3+2+5)
2. Discuss the biochemical role, deficiency manifestations and estimation of vitamin D. (3+3+4)

Short notes

(10x5=50)

3. Gout
4. Fructose metabolism
5. Scurvy
6. Fatty liver
7. Discuss the tests used to detect inorganic constituents of urine
8. Composition and chemical analysis of peritoneal fluid
9. Beta oxidation of fatty acids
10. Glucose tolerance test and its interpretation
11. Write the normal fasting blood glucose level. Discuss the various methods for estimation of blood glucose
12. Phenyl ketonuria

Answer briefly

(10x3=30)

13. Trans methylation
14. Atherosclerosis
15. Alkaptonuria
16. List differences between Kwashiorkor and Marasmus
17. Microalbuminuria
18. Define and give two examples of substrate level phosphorylation
19. Leukotrienes
20. Important products formed from cholesterol
21. Foam test
22. Cori's cycle