

Third Year B.Sc MLT Degree Regular/Supplementary Examinations
February 2025
Biochemistry – III

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. What is the principle of electrophoreses. Describe in detail the agar gel electrophoreses of serum protein with normal and two abnormal patterns. (2+5+3)
2. Name two enzymes estimated in a case of acute pancreatitis. Write in detail the estimation of anyone of them. (2+8)

Short notes**(10x5=50)**

3. Types of hemoglobin
4. Gel permeation chromatography
5. Enzyme profile in myocardial infarction
6. Radio immunoassay
7. Significance and method of estimation glucose 6 phosphate dehydrogenase
8. Analyses of renal calculi
9. Allosteric regulation
10. Cholinesterase
11. Multienzyme complex. Explain with example
12. Isoenzymes of alkaline phosphatase

Answer briefly**(10x3=30)**

13. Units of enzyme activity
14. Kinetic assay
15. Isohydric transport of CO₂
16. Isoelectric focusing
17. Estimation Gamma glutamyl transferase in serum
18. Clinical importance of clearance studies
19. Enzyme specificity
20. Sickling test
21. Jaffe reaction
22. Watson-Schwartz test