

**Third Year B.Sc MLT Degree Supplementary Examinations January 2022  
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. Define jaundice. Discuss the types and investigations done for the diagnosis of different types of jaundice.
2. Define enzyme. Classify enzymes according to IUB system with one example each. Mention the enzymes commonly estimated after myocardial infarction.

**Short notes**

**(10x5=50)**

3. Principle and applications of paper chromatography
4. Enzyme linked immunosorbent assay
5. Catabolism of Heme
6. Serum electrophoresis and its interpretations.
7. Competitive inhibition
8. Radioimmunoassay
9. Analysis of biliary calculi
10. Immunodiffusions
11. Homocystinuria
12. Enzyme regulation

**Answer briefly**

**(10x3=30)**

13. Methaemoglobin
14. Lipases
15. Co-factors
16. Significance of Km
17. Acute intermittent porphyria
18. Myoglobin
19. Fluorescent immunoassay
20. Clinical significance of glucose-6-phosphate dehydrogenase
21. Sickle cell anemia
22. Affinity Chromatography