

QP CODE: 301012

Reg. No:

**Third Year B.Sc MLT Degree Supplementary Examinations August 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. Name the enzymes useful in the diagnoses of hepato biliary diseases. Give in detail the different methods of estimation of any one of them. (2+8)
2. What are the different methods of serum bilirubin estimation. Discuss one method in detail. How it is useful for the differential diagnoses of jaundice. (2+4+4)

Short notes

(10x5=50)

3. Gas liquid chromatography
4. Porphyrins
5. Significance and estimation of serum amylase
6. Agar gel electrophoreses
7. Adsorption chromatography
8. Exogenous clearance studies
9. Non-functional enzymes of plasma
10. Isoenzyme
11. Thalassemia
12. Competitive inhibition

Answer briefly

(10x3=30)

13. Oxygen dissociation curve
14. Electro endosmosis
15. Enzyme for the diagnoses of prostatic carcinoma
16. Isoelectric focusing
17. Km value
18. Aldolase
19. Met haemoglobin
20. Oxidoreductase
21. Thin layer chromatography
22. Standard urea clearance
