

QP Code: 401012

Reg. No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
February 2026**

Biochemistry - IV

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 table/diagrams/flow charts wherever necessary*

Essay

(2x10=20)

1. What is the reference range of serum phosphorus. Discuss in details any one method of estimation of serum phosphorus in laboratory. Add a note on its clinical significance
2. What are Liver function tests. Discuss the different tests done to diagnose jaundice in laboratory

Short notes

(10x5=50)

3. Significance and classification of gastric function tests
4. Atomic absorption spectroscopy
5. DNA Replication
6. Automation in lab
7. Preanalytical errors in lab
8. Urinary estradiol estimation and significance
9. Hyperthyroidism
10. Blotting techniques
11. Drugs of abuse: role of clinical lab in diagnosis of substance abuse
12. Pancreatic enzymes in blood and urine

Answer briefly

(10x3=30)

13. Precision vs Accuracy
14. Metabolic acidosis
15. Tubular function tests
16. Common methods of hormone estimation
17. Screening for genetic diseases
18. Post translational modifications
19. Plasma osmolality
20. Acute kidney diseases
21. Hormones used to diagnose infertility
22. Fetal lung maturity
