

QP Code: 401012

Reg. No:.....

**Final Year B.Sc MLT Degree Supplementary Examinations
September 2025**

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. Discuss the various body buffers system. Add a note on blood gas analysis
2. Discuss Iron metabolism. Add a note on biochemical investigations to detect Iron deficiency anemia

Short notes

(10x5=50)

3. Laboratory Information System
4. Hemolytic disease of new born
5. Control charts
6. Jaundice
7. The different steps to establish reference intervals for blood glucose
8. Human genome project
9. Blotting techniques
10. Hypothalamic hormones
11. Normal distribution curve
12. Second messengers

Answer briefly

(10x3=30)

13. Investigations in Wilson's disease
14. Hyperkalemia
15. Occult blood in feces
16. Estimation of free and total acidity
17. Body fluid compartments
18. Proficiency test
19. Inhibitors of translation
20. Gene therapy
21. Urinary VMA
22. Restriction enzymes
