

QP Code: 401012

Reg. No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
April 2024**

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. Define clearance. Mention the exogenous and endogenous markers used to detect clearance. Discuss the advantage, disadvantage and interpretation of the ideal clearance markers. (2+3+5)
2. Discuss Iodine metabolism. Add a note on biochemical investigations in Hypothyroidism.

Short notes

(10x5=50)

3. Automation in biochemistry lab.
4. Biosynthesis of estradiol
5. Renal regulation of blood pH
6. Quality control programs
7. PCR
8. Drug assay in clinical biochemistry
9. Adrenal cortical hormones
10. Biochemical investigations in female infertility
11. DNA repair
12. Vectors in recombinant technology

Answer briefly

(10x3=30)

13. Lab investigations in prehepatic jaundice
14. Reference population
15. Post translational modification
16. FISH
17. Cloning
18. Analytical errors
19. Anion gap
20. Fecal fat estimation
21. Dry chemistry analyzer
22. Collection of gastric juice
