QP Code: 401012	Reg. No:

Final Year B.Sc MLT Degree Supplementary Examinations September 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. What is the reference range of serum calcium. Discuss any one method of estimation of serum calcium in laboratory. Add a note on hypocalcemia and hypercalcemia.
- 2. What are kidney function tests. Discuss the significance and procedure of clearance tests.

Short notes (10x5=50)

- 3. Fractional test meal test
- 4. pH meter
- 5. Dry chemistry analyzer
- 6. Quality assurance programs in lab
- 7. Hypothyroidism
- 8. Genetic code
- 9. Polymerase Chain reaction
- 10. Hemolytic diseases of newborn
- 11. Malabsorption syndromes
- 12. Buffers present in our body

Answer briefly (10x3=30)

- 13. Bilirubin estimation
- 14. Urinary VMA
- 15. Iron studies in anemia diagnosis
- 16. Uses of blotting techniques
- 17. Flame photometry
- 18. Sweat tests
- 19. Urinary steroids
- 20. DNA repair
- 21. Screening tests for common drugs
- 22. Gene therapy
