

QP Code: 401012

Reg. No:.....

Final Year B.Sc MLT Degree Supplementary Examinations October 2022

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. Internal and external quality control programme (5+5)
2. Enumerate the renal function tests and explain their clinical significance

**Short notes** (10x5=50)

3. Tools of recombinant DNA technology
4. Urinary 5HIAA
5. Genetic code
6. Plasma osmolality
7. Laboratory investigations in jaundice
8. Adrenal function tests
9. Discuss the principles, procedure and applications of PCR in laboratory medicine
10. Ion selective electrodes
11. Prenatal diagnosis of genetic disorders
12. Tests for exocrine pancreatic function

**Answer briefly** (10x3=30)

13. Free and total acidity in gastric function tests
14. Body buffers
15. Differentiate between sensitivity and specificity
16. Gene therapy
17. Radio isotope studies to assess thyroid function
18. Principles and functioning of glucometer
19. Inhibitors of protein synthesis
20. Southern blotting
21. Tests for male infertility
22. Prothrombin time

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