PAPER CODE: ML712

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B.Sc. (MLT) SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS: JULY, 2025

BIOCHEMISTRY- I

Time: 3 Hours. **Max Marks: 80**

Note: Answer all questions
Give Diagrammatic representation wherever necessary.

Write an essay on any TWO of the following: 2 X 10 = 20

1. Define Lipid, Classification of lipids and give examples of compound lipids with chemical structure and clinical significance.
2. Write in detail Renal function tests and explain creatinine clearance and its clinical significance.
3. Describe the lab setup for 30 bedded hospital — required Glassware, pipettes and automation, mention the pre and post analytical errors.

Write a short note on any SIX of the following: 6 X 5 = 30

4. Define: 1. Molecular weight 2. Normality 3. Molarity 4. Molality 5. Valency. Give example.
5. What is the normal human blood PH and write measurement of H^+ concentration.
6. HMP shunt pathway and its significance.
7. Principle and Mechanism of Flame photometer and its clinical uses.
8. What is GTT? Explain procedure, precautions of this test and its importance.
9. Methods of determination of blood glucose and normal blood glucose values.
10. Define Nucleoside, Nucleotide and Nucleic acid and write differences between DNA and RNA.
11. Write different types of classification of amino acids and write examples based on chemical structure.

Write briefly on the following: 10 X 3 = 30

12. Protein free filtration Preparation.
13. Beer's law.
14. Calibration.
15. Standards and Standardization.
16. Sources of Iron and its absorption.
17. Name the Buffers of Body fluids.
18. Normal blood level of cholesterol & Electrolytes.
19. Essential fatty acids.
20. Transmittance.
21. Lipid Profile and its normal ranges.

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