


RAN-2503000505037001
T.Y.B.Sc. NEP (Sem. V) Examination October - 2025
Medical Laboratory Technology
Clinical Biochemistry - 1 (MLT - MJ - 503)
Time: 2 Hours]
[Total Marks: 25
સૂચના : / Instructions

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q-1. Answer in one or two sentences: (Any 05) [05]

1. What is normal A:G ratio? Write its normal range.
2. Define isoenzymes. Which isoenzyme is the most detected in Myocardial infarction?
3. Write fractions of Plasma Protein by Cohn's fractionation method.
4. Which acids are observed in blood?
5. What is metabolic acidosis?
6. Define buffer and give examples of blood buffer.

Q-2. Answer on brief: (Any 2) [10]

1. Enlist and explain Functions of plasma proteins.
2. Albumin estimation: Name of method, Principle, Normal Range and clinical significance.
3. Write a note on LDH and its isoenzymes.

Q-3. Write short notes: (Any 2) [10]

1. Phosphate mechanism of kidney for blood pH regulation
2. Respiratory Acidosis
3. Hemoglobin as buffer.