

**RAN-2203230202030001****PGDMLT (Sem.-II) Examination October - 2025****PGDMLT- 2003: Clinical Biochemistry****Time: 3 Hours]****[Total Marks: 70****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 SHORT (Any 7)**14**

- 1 Define Major elements and Trace elements giving examples.
- 2 Enlist the clinical conditions in which Blood glucose level is increased.
- 3 What is compound lipid? Write examples of it.
- 4 Write normal range of Total Protein, Albumin and A:G Ratio.
- 5 Draw labelled diagram of structure of Lipoprotein.
- 6 What is plasma derived enzymes? Write its characteristic and examples..
- 7 Define: What is GHB? Write its other names and normal range.
- 8 What are functions of Vitamin D?

Q.2. ANSWER ANY TWO OF THE FOLLOWING**14**

- 1 Enlist diabetic profile tests and explain any one in detail.
- 2 What is GTT? Explain standard oral GTT.
- 3 Write a note on Glucose Homeostasis and Autoregulation of blood glucose in normal adult human.

Q.3. ANSWER ANY TWO OF THE FOLLOWING**14**

- 1 Write functions of Protein and Plasma Proteins
- 2 What is cell derived enzyme? How is it classified? Write isoenzymes, properties and clinical importance of ALP.
- 3 Write a note on determination of serum albumin and Globulin.

Q.4. ANSWER ANY TWO OF THE FOLLOWING**14**

- 1 What is lipoprotein? Write its classification
- 2 Explain metabolism of Good Cholesterol.
- 3 Write a note on Frederickson Classification of Hyperproteinemia

Q.5. ANSWER ANY TWO OF THE FOLLOWING**14**

- 1 Describe functions of Heart. Classify the CFT and give its clinical significance.
- 2 What is full form of SGPT and SGOT? Write determination method, principle, normal rang, clinical significance of ay one
- 3 Vitamin D3.