

**2203230202030001**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**POSTGRADUATE DIPLOMA IN MEDICAL LABORATORY**  
**TECHNOLOGY (SECOND SEMESTER)**  
**CLINICAL BIOCHEMISTRY (THEORY) – LEVEL 3**

[Time: As Per Schedule]

[Max. Marks: 70]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (SECOND SEMESTER)**
  - b. Name of the Subject : **CLINICAL BIOCHEMISTRY (THEORY) – LEVEL 3**
  - c. Subject Code No : **2203230202030001**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 ANSWER IN SHORT (Any 7)**

**14**

- 1) Explain structure of Lipoproteins.
- 2) Which cholesterol are known as "Good Cholesterol" and "Bad Cholesterol", why?
- 3) Write down full form of ALP and TSH.
- 4) What is the normal range of Vitamin  $B_{12}$  and Vitamin  $D_3$ ?
- 5) What is GTT? In which condition it is increased?
- 6) Define Carbohydrate. Write its classification.
- 7) Enlist functions of plasma protein.
- 8) What is isoenzyme? Write its importance.

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

- 1) Write functions of Carbohydrate
- 2) Write a note on GTT
- 3) Define Diabetes Mellitus. Write its stages, clinical types and metabolic changes.

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

- 1) Write classification of Protein.
- 2) CK and its importance
- 3) Electrophoretic pattern of serum protein is helpful for diagnosis of diseases, justify.

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

- 1) Give Definition and Classification of Lipids.
- 2) Describe Pathological Variations of Blood Cholesterol Level.
- 3) List down Lipid Profile Tests and describe principle and clinical significance of any one in detail.

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

- 1) What is the full form of SGPT and SGOT? Write-down normal range and clinical significance of SGPT and SGOT.
- 2) Define Electrolytes. Explain any one method for determination of Calcium.
- 3) Give function and classification of Liver Function test.

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