

**CBSE CLASS-XII EXAMINATION PAPER**

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Name of the Subject: Applied Biochemistry

Name of the Paper: Applied Biochemistry and Applied Nutrition & Dietetics

Paper Code: B10C (3-904) 140

Time: 3.5 hour

Maximum Marks: 30

**Note - Attempt all the Sections**

**Section - A (Applied Biochemistry)**

I. Multiple choice questions (1x2 = 2 marks)

1. What does HbA<sub>1c</sub> measures?
  - (a) Current blood glucose level
  - (b) Average blood glucose level over past 2-3 months
  - (c) The amount of insulin in the blood
  - (d) The life span of red blood cells
2. What is a healthy total cholesterol level?
  - (a)  $\leq 100$  mg/dL
  - (b)  $\geq 200$  mg/dL
  - (c)  $< 200$  mg/DL
  - (d) None of the above

II. Short Answer (Attempt any one) (1x5 = 5 marks)

1. Give the digestion and absorption of carbohydrates. Also give the disorders associated with it.
2. Define fatty acids and give their detailed classification.

III. Very Short (1x2 = 2 marks)

1. Define GGT curve used for the investigation of Diabetes Mellitus.

**Section - B (Applied Nutrition & Dietetics)**

I. Multiple choice questions (1x2 = 2 marks)

1. Nutrients that are known as body builders-
  - a) Vitamins
  - b) Minerals
  - c) Carbohydrates
  - d) Proteins
2. Smallest monosaccharide's are-
  - a) Tetroses
  - b) Pentoses
  - c) Hexoses
  - d) Trioses

II. Essay Questions (Attempt any one) (2+3+5 = 10 marks)

1. (a) Define Energy with energy value food.  
 (b) Discuss Basal Metabolic Rate.  
 (c) Explain factors affecting Basal Metabolic Rate.
2. (a) Define Protein.  
 (b) Discuss Essential Amino Acids.  
 (c) Explain functions of Protein.

III. Short Answer (Attempt any one) (1x5 = 5 marks)

1. Classification of foods on the basis of origin.
2. Role of nutrition in maintaining health.

IV. Very Short (Attempt any two) (2x2 = 4marks)

1. Macro and Micro nutrients.
2. Saturated and unsaturated fatty acids.
3. Classify Carbohydrates with Example.