

Roll No.

91049

**B. Sc. (Bio-Technology) 1st Semester
(w.e.f. 2012-13)
Examination – November, 2023**

BIOCHEMISTRY & METABOLISM

Paper : BT-104

Time : Three Hours]

[Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Write note on the following : 1 × 8 = 8
- (a) Apoenzymes
 - (b) Nucleosides
 - (c) Gluconeogenesis
 - (d) TCA cycle

- (e) Forces stabilizing protein structure
- (f) Denaturation of proteins
- (g) Bacterial cell wall
- (h) Renaturation of proteins

UNIT – I

2. What are proteins ? Briefly explain their properties and classification. 8
3. Write a brief note on structure and function of various types of carbohydrates. 8

UNIT – II

4. (a) Briefly describe structure and function of lipids. 4
(b) Classify different types of fatty acids. 4
5. Write note on : 4 × 2 = 8
- (a) Structure of DNA.
 - (b) Physical and chemical properties of nucleic acids.

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UNIT – III

6. Write note on : 4 × 2 = 8

(a) Nomenclature and classification of enzymes.

(b) Cofactors in enzyme catalysis.

7. Briefly describe : 4 × 2 = 8

(a) Enzyme specificity

(b) Activation energy of enzymes

UNIT – IV

8. Describe ETC in detail. 8

9. Describe Pentose phosphate pathway and explain its significance. 8

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