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BSCbtMJ201x-1C

Seat No : _____

B.Sc. Semester - 1 (NEP-2020) Examination

OCT/NOV-2025

BIT: Biomolecules (Major-1)

Time: 2:00 Hours

Marks:50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1 Classify carbohydrates and mention their biological functions. (10)

OR

Que.1 Classify polysaccharides and state their major functions.

Que.2 Describe the general structure and properties of amino acids. (10)

OR

Que.2 Explain the four levels of protein structure with suitable examples.

Que.3 Classify lipids and explain their biological functions. (10)

OR

Que.3 Explain the structure and function of triacylglycerols.

Que.4 Describe the structure and properties of nucleotides and their biological functions. (10)

OR

Que.4 Classify RNA types and describe their functions.

Que.5 Write the short note on: (10)

(A) Describe any three important reactions of monosaccharides.

(B) Describe the important properties of proteins.

OR

(A) Write short notes on the sources of fat-soluble and water-soluble vitamins.

(B) Explain the semi-conservative nature of DNA replication and state Chargaff's rule.
