

**2403001302010002**  
**EXAMINATION SEPTEMBER 2024 (ATKT EXAM)**  
**BACHELOR OF SCIENCE (BIOTECHNOLOGY) SEM-2**  
**BT - MJ - 202 : BIOMOLECULES**

[Time: As Per Schedule]

[Max. Marks: 35]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination: **BACHELOR OF SCIENCE (BIOTECHNOLOGY) SEM-2**
  - b. Name of the Subject: **BT - MJ - 202 : BIOMOLECULES**
  - c. Subject Code No: **2403001302010002**
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 Five).**

**5**

- a) Define: Mutarotation.
- b) Difference between reducing and non-reducing sugar.
- c) List essential amino acids.
- d) Define: Domain.
- e) Define complex lipid with its examples.
- f) Give two examples of essential lipids.

**Q.2 Short note: (Any Two).**

**10**

- a) Carbohydrates and its classification.
- b) Nucleoside and Nucleotide.
- c) Structure of DNA.

**Q.3 Short note: (Any Two).**

**10**

- a) Classification of amino acids.
- b) Properties of proteins.
- c) Biological roles of protein.

**Q.4 Short note: (Any Two).**

**10**

- a) Biological role of lipids.
- b) Physical properties of lipids.

c) Classification of lipid.

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