



RAN - 2503001302021111

**RAN-2503001302021111 / 2403001302010002**

**B. Sc. Biotechnology (NCF-NEP) (Sem. - II) Examination April - 2025**

**BT-MJ-202 - Biomolecules**

**Time: 1:30 Hours ]**

**[ Total Marks: 38**

**સૂચના : / Instructions**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

**B. Sc. Biotechnology (NCF-NEP) (Sem. - II)**

Name of the Subject :

**BT-MJ-202 - Biomolecules**

Subject Code No.: **2503001302021111 / 2403001302010002**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks.  
(3) Draw neat and labelled diagrams wherever necessary.

**Q. 1. Answer in Short (Any eight).**

**08**

- Define: epimers with its example and draw the structure of it.
- Differentiate between reducing and non-reducing sugar with examples.
- List four essential amino acids required by human body.
- Define: salting in and salting out in protein chemistry.
- What are complex lipid? Give its examples.
- Give two examples of essential fatty acids.
- Give the function and site of hylouronic acid.
- Define ketogenic and glycogenic amino acids.
- Give the difference between MUFAs and PUFAs.

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

**10**

- Discuss in detail about polysaccharides.
- Draw and labelled structure of B-DNA with its important points.
- Explain RNA with its different types.

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[ P.T.O. ]

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- Q. 3. Short note: (Any Two). 10**
- Classification of amino acids.
  - List out the Properties of proteins.
  - Justify the structural and dynamic functions of protein.

- Q. 4. Short note: (Any Two). 10**
- Discuss about the Biological role of lipids.
  - List out Physical and chemical properties of lipids.
  - Describe in detail about classification of lipids.
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