



RAN - 2103000204026001

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**S. Y. B. Sc. - Microbiology (Sem. - IV) Examination April - 2025**

**MB-401 : Microbiology - Biological Molecules (Old)**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**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:

**S. Y. B. Sc. - Microbiology (Sem. - IV)**

Name of the Subject :

**MB-401 : Microbiology - Biological Molecules (Old)**

Subject Code No.: **2103000204026001**

Seat No.:

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Student's Signature

**Q. 1. Give specific answers.**

**08**

1. Define: Isoenzyme.
2. State one uncommon amino acid.
3. What is chitin?
4. Give two examples of monosaccharide?
5. Define glycerol lipid.
6. State one example of saturated fatty acids.
7. Mention full form of dCMP.
8. Which sugar is present in DNA?

**Q. 2. Justify / Explain / Comment on any two of the following.**

**14**

1. Justify- Many factors affect enzyme activity.
2. Explain- Polysaccharides play an important role in the structure of cell walls composition.
3. Comment: RNA differs from DNA.

**Q. 3. Discuss any two of the following.**

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1. Define sugar. Explain in detail about reactions of monosaccharides.
2. Write a detail note on complex lipids.
3. Describe structure and function of Transfer RNA.

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**[ 1 ]**

**[ P.T.O. ]**

**P0226**

**Q. 4. Write short notes on any two of the following.**

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1. Functions of protein and its Peptide bond formation.
  2. Fatty acids.
  3. Types of DNA.
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