

**2103000204026001**  
**EXAMINATION FEBRUARY -MARCH 2024**  
**BACHELOR OF SCIENCE (FOURTH SEMESTER)**  
**MICROBIOLOGY-VIII**  
**(MB-401-BIOLOGICAL MOLECULES)**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **BACHELOR OF SCIENCE (FOURTH SEMESTER)**
  - b. Name of the Subject : **MICROBIOLOGY-VIII (MB-401-BIOLOGICAL MOLECULES)**
  - c. Subject Code No : **2103000204026001**
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 Give Specific answers**

**8**

1. Give one example of achiral molecule.
2. Why proline is referred as imino acid.
3. Which form of DNA has 11 base pairs for each turn of the helix?
4. State the role of major groove.
5. Give 2 examples of epimers.
6. State the use of Haworth projection formulas.
7. Define fatty acids.
8. State the full form of EFA.

**Q.2 Explain/comment on any two of the following** **14**

1. Polysaccharides play important role in connective tissues and in the structure of cell wall - Justify.
2. Explain nomenclature and classification of enzymes
3. Comment: Lipids are broadly classified into simple, complex and derived lipids.

**Q.3 Discuss any two of the following** **14**

1. Describe the structure of DNA
2. Define enzyme. Explain the factor affecting enzyme activity
3. Write a brief note on Oligosaccharides

**Q.4 Write short notes on any two of the following** **14**

1. Denaturation of DNA
2. Structure and function of protein
3. Functions of lipids

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