



RAN - 2103000204026001

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S. Y. B. Sc. (Sem. - IV) Examination April - 2023

Microbiology : MB - 401

Biological Molecules

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृष्टावेळ निशानीवाणी विगतो उत्तरवही पर अवश्य लक्षवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

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

Name of the Subject :

Microbiology : MB - 401 Biological Molecules

Subject Code No.: 2103000204026001

Seat No.:

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Student's Signature

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

Q. 1. Give Specific Answer.

(12)

- What are imino acids? Give example.
- Enlist two differences between DNA and RNA.
- Define Stereoisomers with example.
- Give full form of PUFA. Give any two examples of PUFA.
- What do you mean by Zwitterions?
- Which is the principal protein of Chromatin? Enlist its types.

Q. 2. Justify / comment on: (Any Two)

(12)

- Monosaccharides are known as building blocks of carbohydrates.
- Enzymes are classified according to its function.
- Protein synthesis is directed by messenger RNA.

Q. 3. Discuss in detail: (Any Two) (16)

- a) Write in detail: Complex Lipids.
- b) What are polysaccharides? Explain in detail with one example.
- c) The chemical Nature of enzymes.

Q. 4. Write short notes: (Any Two) (10)

- a) Write in short: Glycerol Lipids.
 - b) The structural components of nucleotides.
 - c) Supercoiling of Eukaryotic DNA.
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