



RAN - 2103000204026001

RAN-2103000204026001 / 2103000204036001 / 2203001104030004

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

Microbiology

MB - 401 : Biological Molecules

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपखवी.
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 / 2103000204036001 / 2203001104030004

Seat No.:

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Student's Signature

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

Q. 1. Give Specific Answer.

(12)

- Differentiate between aldose and ketose sugar.
- What is saponification?
- Enlist three artificial sweeteners used in food industries.
- Define :
 - Enzymes
 - Iso-enzymes.
- What do you mean by non-polar amino acids? Give two examples.
- Give the function of Topoisomerase and DNA gyrase.

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

(12)

- The side chains of amino acids are important to classify them.
- Ribosomal RNA is an important part of Ribosomes.
- Lipids play important role in formation of cell membranes.

- Q. 3. Discuss in detail: (Any Two) (16)**
- a) Write in detail: Classification of Lipids.
 - b) Explain disaccharides in detail with examples.
 - c) Define DNA. State three different conformation of DNA.

- Q. 4. Write short notes: (Any Two) (10)**
- a) Write a short note: Glycogen as animal storage polymer.
 - b) The formation of Peptide bonds.
 - c) Supercoiling of Prokaryotic DNA.
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