



RAN - 1903000202030062

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B.Sc. (Microbiology) (Sem. II) Examination

March / April - 2019

MB 04 : Biomolecules of Microorganisms

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृष्टवित नशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. (Microbiology) (Sem. II)

Name of the Subject :

MB 04 : Biomolecules of Microorganisms

Subject Code No.: 1903000202030062

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)

- Enlist any two functions of carbohydrates.
- What are enantiomers and diastereomers?
- Define: Zwitterion.
- Give elemental composition of proteins.
- What is Chargaff's rule?
- Write two differences between DNA and RNA.

Q-2: Answer the Following (Any Two)

(12)

- Define polysaccharide. Describe the homo-polysaccharides.
- Explain classification and function of lipids.
- Write a note on steroids.

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

- (a) Explain various reactions shown by monosaccharides with suitable example.
- (b) Write a detailed note on determination of primary structure of protein.
- (c) Explain structure and types of RNA in detail.

Q-4: Write Short notes on following (Any Two) (10)

- (a) Functional & nutritional classification of protein.
 - (b) Organization of DNA in eukaryotic and prokaryotic cells.
 - (c) Amphipathic lipid.
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