



AC-2971

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

April / May - 2015

MB-04 : Chemistry of Microorganisms

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दृशायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
B. Sc. (Microbiology) (Sem. II)

Name of the Subject :  
MB-04 : Chemistry of Microorganisms

Subject Code No. : 2 9 7 1 Section No. (1, 2,.....): Nil

Seat No. :  
[ ] [ ] [ ] [ ] [ ] [ ]

Student's Signature

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

**1 Give the specific answers**

10

- 1) Define enantiomers with suitable examples.
- 2) Define: a) Iodine number, b) Saponification number.
- 3) How saturated fatty acids are differing from unsaturated fatty acids?
- 4) What are non standard amino acids? Give two examples.
- 5) What is Chargaff's rule?

**2 Answer the followings (Any two)**

12

- 1) Discuss the structure and functions of 3 biochemically important disaccharides.
- 2) Write about the tests to check purity of fats and oils.
- 3) Write detail account on physical properties of aminoacids.

**3 Answer the followings (Any two)**

**16**

- 1) Name different RNAs, and discuss their structure.
- 2) Describe the classification of protein with suitable examples.
- 3) Discuss the fatty acids in detail.

**4 Write Short Notes on (Any three)**

**12**

- 1) Different forms of DNA
  - 2) Bonds responsible for protein structure
  - 3) Functions of carbohydrates
  - 4) Triglycerides
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