



RAN - 2503000504048001

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Bachelor of Science (NCF-NEP) (Sem. - IV) Examination April - 2025

Bioscience (Microbiology)

Minor - Biochemistry Theory - BM-ME-4

Time: 1 Hour]

[Total Marks: 25

સૂચના : / Instructions

(1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:
Bachelor of Science (NCF-NEP) (Sem. - IV)

Name of the Subject :
Bioscience (Microbiology) Minor - Biochemistry Theory
- BM-ME-4

Subject Code No.: 2503000504048001

Seat No.:

Student's Signature

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

Q. 1. Multiple choice questions. (Any Five)

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- Which the following regarding to examples of Keto sugar is not correctly?
 - Fructose
 - Ribulose
 - Ribose sugar
 - Dihydroxy acetone
- This is an example of derived lipids
 - Terpenes
 - Steroids
 - Carotenoids
 - All of the above
- Name the reagent which is used in Saponification?
 - Ammonia
 - Acetic acid
 - NaOH/KOH
 - Butanone
- All the following are sulphur containing amino acids found in proteins except
 - Cysteine
 - Cystine
 - Methionine
 - Threonine

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[1]

[P.T.O.]

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5. Which type of prosthetic group is present in nucleoproteins?
- a. Neurons
 - b. Nerve cells
 - c. Nucleic acid
 - d. Axons of nerve cells
6. Which of the following are not the components of RNA?
- a. Thymine
 - b. Adenine
 - c. Guanine
 - d. Cytosine

Q. 2. Answer the following questions. (Any two) 10

1. Explain in detail disaccharides.
2. Describe linear & ring structure of hexoses.
3. Physiological importance of lipids.

Q. 3. Answer the following questions. (Any two) 10

1. Describe in brief classification of amino acids.
2. Explain in detail classification of protein.
3. Write a note on t-RNA.
