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RAN-2403000502018001

B. Sc. (NEP) (Sem. : II) Examination April - 2025

Bioscience (Microbiology) Major - 1 (Microbial Diversity)

(Paper : BM - MJ - 201)

[Total Marks: 38

સૂચના : / Instructions

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

Name of the Examination:

B. Sc. (NEP) (Sem. : II)

Name of the Subject :

Bioscience (Microbiology) Major - 1 (Microbial Diversity)
(Paper : BM - MJ - 201)

Subject Code No.: 2403000502018001

Seat No.:

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

Q.1 Multiple choice questions. (Any Eight)

8

- _____ is a found in cell wall of bacteria.
 - Peptidoglycan
 - Pseudomurein
 - Polysaccharide
 - None.
- Which of the following is present in Oscillatoria?
 - Heterocysts
 - Hormogonia
 - Akinetes
 - All
- Types of bacteria according to symbiotic relationship is _____.
 - Saprophytes
 - Decomposer
 - Commensales
 - All
- Vegetative cell develops from cyst called _____.
 - Excystment
 - Encystment
 - Endospore
 - None

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5. Which of the following is a flagellated protozoon?
 - a. Amoeba
 - b. Anabaena
 - c. Ascaris
 - d. None
6. Protozoa are_____
 - a. Autotrophic
 - b. Photosynthetic
 - c. Free living
 - d. All
7. Which of the following is an sexual spore?
 - a. Zygospor
 - b. Conidia
 - c. Sporangiospor
 - d. All
8. An example of dimorphic fungi is _____
 - a. Aspergillus
 - b. Mucor
 - c. Candida
 - d. None
9. An example of unicellular algae is _____
 - a. Nostoc
 - b. Chlorella
 - c. Saccharomyces
 - d. All

Q.2 Answer any two of the followings. 10

1. Describe in brief physiological types of archeobacteria.
2. Draw a neat & labelled diagram of ultrastructure bacterium.
3. Explain in brief the characteristics of Cyanobacteria.

Q.3 Answer any two of the followings. 10

1. Describe the general classification of protozoa.
2. Explain in brief the Life cycle of Plasmodium.
3. Write a note on Paramecium.

Q.4 Answer any two of the followings. 10

1. Write a note on classification of fungi.
2. Draw a neat & labelled diagram of ultrastructure fungal cell.
3. Discuss the characteristics of Algae.