



RAN - 2503000502018003

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

**Bioscience (Microbiology) Major - 1**

**BM-MJ-201 : Microbial Diversity**

[ Total Marks: 38

સૂચના : / Instructions

(૧)

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 :  
BM-MJ-201 : Microbial Diversity

Subject Code No.: 2503000502018003

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 Multiple choice questions.(Any Eight)**

**08**

- \_\_\_\_\_ is a found in cell wall of archeobacteria.
  - Peptidoglycan
  - Pseudomurein
  - Murein
  - None.
- Which of the following is present in cyanobacteria?
  - Trichome
  - Hormogonia
  - Akinetes
  - All
- Types of bacteria according to ecological aspect are \_\_\_\_\_.
  - Saprophytes
  - Decomposer
  - Commensales
  - All
- Vegetative cell develops into a resting cell called \_\_\_\_\_.
  - Excystment
  - Encystment
  - Endospore
  - None

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[ P.T.O. ]

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5. Which of the following is a ciliated protozoon?
  - a. Amoeba
  - b. Anabaena
  - c. Plasmodium
  - d. Balantidium
6. Protists are \_\_\_\_\_
  - a. Chemoheterotrophic
  - b. Photosynthetic
  - c. Free living
  - d. All
7. Which of the following is an asexual spore?
  - a. Blastospore
  - b. Chlamyospore
  - c. Sporangiospore
  - d. All
8. Dimorphic fungi has \_\_\_\_\_ forms
  - a. Y form
  - b. M form
  - c. Y&M form
  - d. Z form
9. Agar agar is obtained from \_\_\_\_\_
  - a. Bacteria
  - b. Algae
  - c. Fungi
  - d. Protozoa

**Q.2 Answer any two of the followings. 10**

1. Describe in brief types of bacteria.
2. Draw a neat & labelled diagram of ultrastructure Cyanobacterium.
3. Explain in brief the characteristics of Extremophiles.

**Q.3 Answer any two of the followings. 10**

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

**Q.4 Answer any two of the followings. 10**

1. Write a note on reproduction of Mucor.
2. Draw a neat & labelled diagram of ultrastructure algal cell.
3. Discuss the characteristics of Fungi.