

RAN-2503000502018003 / 2403000502018001

B. Sc. (NEP) (Sem. - II) Examination October - 2025

Bioscience (Microbiology) Major - 1

Microbial Diversity (Paper - BM-MJ-201)

Time: 2 Hours]

[Total Marks: 38

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labeled diagrams whenever necessary.

Seat No.:

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Student's Signature _____

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

(08)

1. Heterocysts are present in _____
 - a. Oscillatoria
 - b. Spirulina
 - c. Scytonema
 - d. None
2. An example of Methanogens, except _____
 - a. Methanobacterium
 - b. Thermoplasma
 - c. Methanothermus
 - d. Methanococcus.
3. Which of the following is spore former?
 - a. Bacillus
 - b. Clostridium
 - c. Sporosarcina
 - d. All
4. Which of the following is a photosynthetic protozoa?
 - a. Amoeba
 - b. Euglena
 - c. Plasmodium
 - d. Balantidium
5. Which of the following is a sporozoan?
 - a. Amoeba
 - b. Anabaena
 - c. Plasmodium
 - d. Balantidium
6. Which of the following is a pathogenic protozoan?
 - a. Amoeba
 - b. Anabaena
 - c. Plasmodium
 - d. Paramecium
7. An example of Basidiomycetes is _____
 - a. Jelly fungi
 - b. Puff balls
 - c. Mushrooms
 - d. All
8. Which of the following are produced by using fungi?
 - a. Bread
 - b. Wine
 - c. Cheese
 - d. All
9. Fungi are _____
 - a. Decomposer
 - b. Saprophytes
 - c. Achlorophyllus
 - d. All

Q. 2. Answer any two of the followings.

(10)

1. Describe in brief types of bacteria.
2. Describe in brief physiological types of archeobacteria.
3. Explain in brief the classification of Cyanobacteria.

Q. 3. Answer any two of the followings. (10)

1. Describe the general classification of protozoa.
2. Draw a neat & labelled diagram of ultrastructure of Paramecium
3. Write a note on protozoan movement.

Q. 4. Answer any two of the followings. (10)

1. Write a note on useful aspects of fungi.
 2. Draw a neat & labelled diagram of ultrastructure algal cell.
 3. Write a note on Aspergillus & Penicillium.
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