



RAN-2503000502018003

F. Y. B. Sc. - NEP (Sem.-II) Examination April - 2026

Bioscience (Microbiology) - Major

Microbial Diversity (Paper - BM-MJ-201)

Time: 1.5 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.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

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

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1. _____ is a found in cell wall of bacteria.
 - a. Peptidoglycan
 - b. Pseudomurein
 - c. Polypeptide
 - d. None.
2. Which of the following is present in blue green algae?
 - a. Trichome
 - b. Hormogonia
 - c. Akinetes
 - d. All
3. Types of bacteria according to gram reaction are _____
 - a. Gram + ve
 - b. Gram - ve
 - c. Both a. & b.
 - d. All
4. Vegetative cell develops into a resting cell called _____
 - a. Excystment
 - b. Encystment
 - c. Endospore
 - d. None
5. Which of the following is a ciliated protozoon?
 - a. Amoeba
 - b. Anabaena
 - c. Plasmodium
 - d. Paramecium
6. Protists are _____
 - a. Chemoheterotrophic
 - b. Photosynthetic
 - c. Free living
 - d. All
7. Which of the following is an asexual spore?
 - a. Blastospore
 - b. Chlamydospore
 - 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 obtain from _____
 - a. Blue green algae
 - b. Green algae
 - c. Red algae
 - d. Brown algae

- Q. 2. Answer any two of the followings. 10**
1. Draw a neat & labelled diagram of ultrastructure of bacterium.
 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 reproduction of Mucor.
 2. Draw a neat & labelled diagram of ultrastructure algal cell.
 3. Discuss the characteristics of Fungi.
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