

2403000502026001
EXAMINATION MARCH-APRIL 2024
BACHELOR OF SCIENCE (SECOND SEMESTER)(NEP)
MAJOR-2-MICROBIOLOGY PAPER - IV THEORY
(BACTERIAL AND ARCHAEL CELL
STRUCTURE AND FUNCTION) - LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 35]

Instructions:

1. Fill up strictly the following details on your answer book

a. Name of the Examination : **BACHELOR OF SCIENCE (SECOND SEMESTER)(NEP)**

b. Name of the Subject : **MAJOR-2-MICROBIOLOGY PAPER - IV THEORY (BACTERIAL AND ARCHAEL CELL STRUCTURE AND FUNCTION) - LEVEL 2**

c. Subject Code No : **2403000502026001**

2. Sketch neat and labelled diagram wherever necessary.

3. Figures to the right indicate full marks of the question.

4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Give Specific Answers (Any five)

5

- Name the bacilli that occurs in long chains.
- State the functions of gas vesicles in organisms.
- Define Periplasmic space.
- State the name of components mostly present in archaeal cell wall
- What is the protein present in flagella?
- Define Chemical repellents.

Q.2 Explain in short ANY TWO of the following

10

- Discuss briefly the structure of Bacterial endospores.
- Explain Facilitated diffusion.
- Write a note on cell surface layers.

Q.3 Discuss in short ANY TWO of the following

10

- Write in detail about bacteria exists in various sizes & shapes.

- b) Describe in detail the cell wall of archaea.
- c) Discuss microbial taxes.

Q.4 Write short note on ANY TWO of the following

10

- a) Nucleoids
- b) ABC transport mechanism
- c) Write a note on bacterial flagella
