

RAN-2403000503018001
B. Sc. (Microbiology) (Sem.-III) Examination March - 2026
Major - I - Bio Science (Microbiology) Paper - III
Prokaryotic Cell Structure (BM-MJ-301)

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: Student's Signature
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Q. 1. Multiple choice questions. (Any Five)
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1. Poly-beta-hydroxybutyrate (PHB) present in aerobic bacteria can serve as?
 - a. a reserve carbon and energy source
 - b. a reserve source of phosphate
 - c. acceptor of oxygen
 - d. provides buoyancy
2. Which of these bacteria have cell wall?
 - a. Escherichia
 - b. Pseudomonas
 - c. Mycobacterium
 - d. All
3. In Extreme Saline Conditions which of the Following is found?
 - a. Mycobacteria
 - b. Eubacteria
 - c. Cyanobacteria
 - d. Archaeobacteria
4. The innermost layer of the spore is called as
 - a. Exosporium
 - b. Core
 - c. Spore coat
 - d. Cortex
5. Bacterial capsule is chemically composed of
 - a. Polypeptide
 - b. Polynucleotides
 - c. Polysaccharides
 - d. Polypeptides or polysaccharides

6. When a bacteria swim towards a chemical, it is termed as _____.
a. positive chemotaxis
b. phototaxis
c. negative chemotaxis
d. magnetotaxis

- Q. 2. Answer the following questions. 10**
1. Explain in brief about Ribosome.
2. Write a note on cell wall of Gram+ve bacteria.

OR

- Q. 2. Write an essay on - cell membrane of Prokaryotes 10**
Q. 3. Discuss in detail structure of bacterial Flagella 10

OR

- Q. 3. Answer the following questions. 10**
1. Pili & Fimbriae
2. Write a note on Endospore.
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