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RAN-2403000503018001

S.Y.B.Sc. Sem. III (Nep) Examination March - 2025

Bioscience (Microbiology) Major

BM - MJ - 301: Prokaryotic Cell Structure

Time: 1 Hours]

[Total Marks: 25

सूचना : / Instructions

(१)

नीचे दृष्टावैल निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:
☛ **S.Y.B.Sc. Sem. III (Nep)**

Name of the Subject :
☛ **Bioscience (Microbiology) Major BM - MJ - 301: Prokaryotic Cell Structure**

Subject Code No.: **2403000503018001**

Seat No.:

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Student's Signature

Instructions:

- (1) Figures to the right indicate full marks.
- (2) Draw neat & clean diagram wherever necessary.

Q-1. Multiple choice questions. (Any Five)

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1. 70S ribosomes are composed of _____
 - a. 50S and 30S
 - b. 40S and 30S
 - c. 60S and 40S
 - d. 50S and 60S
2. Which of the following is found in a extreme saline conditions?
 - a. Mycobacteria
 - b. Eubacteria
 - c. Cyanobacteria
 - d. Archaeobacteria
3. Select the wrong statement about plasmids?
 - a. It is extrachromosomal
 - b. It is double stranded
 - c. Its replication depends upon host cell
 - d. It is closed and circular DNA

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4. _____ protects some bacteria from phagocytosis by host cells.
- a. capsule
 - b. cell wall
 - c. flagellum
 - d. peptidoglycan
5. The outermost layer of the spore is called as _____
- a. Exosporium
 - b. Core
 - c. Spore coat
 - d. Cortex
6. F pilus has a major role as _____
- a. motility of the cell
 - b. port of entry of genetic material during mating
 - c. attachment to host cell
 - d. human infection

Q-2. Answer the following questions. 10

1. Explain in brief about bacterial Ribosome.
2. Write a note on Nucleoid

OR

Q-2. Write an essay on - Bacterial cell wall. 10

Q-3. Discuss in detail about an inclusion bodies. 10

OR

Q-3. Answer the following questions. 10

1. Tactic movement of flagella
2. Write a note on Pili and Fimbriae.