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(20524) Roll No.
B.Sc. (Micro)-I Year

3485

B.Sc. (Micro.) Examination, May-2024

BACTERIOLOGY

(B-102)

B.Sc. (Micro)

Time : Three Hours] [Maximum Marks : 50

Note : Attempt any **five** questions. **All** questions carry equal marks.

1. Name four divisions ending in-cutes and describe their characteristics?
2. Describe the life cycle of endospore-forming bacteria, including the formation and germination of endospores.
3. Define nutrition and nutrients and their subcategories based on need and quantity.

4. Explain how the bacterial glycocalyx and certain surface appendages contribute to biofilm formation.
5. Write short notes on:
 - (a) Mycoplasma
 - (b) Transduction
6. Explain how flagella influence motility and motile behaviour.
7. Explain archaeal adaptations that place them in the category of extremophiles.
8. Describe the structure and importance of cyanobacterium
9. Write short notes on:
 - (a) Rickettsiae
 - (b) Conjugation
10. Describe features of the bacterial chromosome and plasmids.

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