

D 103752

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Name.....

Reg. No.....

**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2024**

Food Technology

FTL 2B 03—FOOD MICROBIOLOGY—I

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Each question carries 2 marks.**Maximum 20 marks.*

1. List out the contributions of Louis Pasteur
2. What is Koch postulates ?
3. Define simple and differential staining.
4. Who is referred as Father of Microbiological techniques ? Why ?
5. Define staining and mention its types.
6. What is a Virus ?
7. Define viriod and prion.
8. Define transduction and its types.
9. What is the principle behind oil immersion objective lens.
10. Define heterocyst and akinetes in BGA.
11. Define temperate phage.
12. Draw a neat diagram of bacterial cell and label its parts.

Section B*Each question carries 5 marks.**Maximum 30 marks.*

13. Write down the classification of bacteria based on its nutritional types.
14. What is capsule, slime layer, prosthecae, stalk and mention its functions.

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15. Differentiate between bacteria and archaea.
16. What are the parts a virus ? Draw T4 bacteriophage and label the parts.
17. Write brief note on reproduction in fungi.
18. Explain the modes of reproduction in bacteria.
19. What are the special structures in saprophytic and parasitic fungi ?

Section C

20. Explain in detail about bacterial conjugation.
21. Write the classification of microscopes and elaborate bright field microscope.

(1 × 10 = 10 marks)