



DCBN101

Reg. No.

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I Semester B.Sc. Degree Examination, April - 2023

BOTANY

Microbial Diversity and Technology

(NEP Scheme 2021 Onwards)

Paper : I



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer ALL parts. Draw diagrams wherever necessary.

PART - A

I. Define/Explain any FOUR of the following in Two or Three sentences. (4×2=8)

1. What is simple staining?
2. Mention any two microbes present in water.
3. What is Tyndallisation?
4. What is subculturing?
5. Expand MTCC.
6. What are Ascolichens? Give an example.

PART - B

II. Write critical notes on any FOUR of the following. (4×5=20)

7. Signification of microbial diversity in nature.
8. Contribution of Leeuwenhoek.
9. Sterilization by radiation.
10. Phototrophs and chemotrophs.
11. Explain the structure of TMV.
12. Citrus canker.

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PART - C

III. Give comprehensive account on any FOUR of the following. (4×8=32)

13. Working principle and application of light field microscope.
 14. Brief account on chemical methods of sterilization.
 15. Explain the structure of T₂ Bacteriophage.
 16. Describe VAM fungi and its significance.
 17. Economic importance of fungi.
 18. a) Vaccines.
b) Hot air oven.
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