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DCBN101

Reg. No.

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I Semester B.Sc. Degree Examination, February/March - 2024

BOTANY

Microbial Diversity and Technology

(NEP 2021 Schemes F + R)

Paper : I



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

1. Answer all parts.
2. Draw diagrams wherever necessary.

PART - A

I. Answer any FOUR of the following in two to three sentences.

(4×2=8)

1. What is resolving power?
2. What is pasteurization?
3. Draw a neat labelled diagram of TMV.
4. Mention the causal organism of white rust of crucifers.
5. Mention the components of bacterial cell wall.
6. What is VAM?

PART - B

II. Write critical notes on any FOUR of the following.

(4×5=20)

7. Contributions of Paul Ehrlich to microbiology.
8. Sterilization using autoclave.
9. Any two preservation methods of microbial cultures.
10. Pure culture and sub culturing.
11. Conjugation in bacteria.
12. Sandal Spike.

[P.T.O.]



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PART - C

III. Give comprehensive account on any FOUR of the following.

(4×8=32)

13. Microbiological stains with a note on principles of staining.
 14. Soil microbes and their significance.
 15. Any four nutritional types of microbes.
 16. Culture media and its types.
 17. Living and Non living properties of viruses.
 18. a. Citrus canker.
b. A sexual reproduction in *Penicillium*.
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