

UNIVERSITY

DCBN101

Reg. No.

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I Semester B.Sc. Degree Examination, May/June - 2022

BOTANY

Microbial diversity and Technology

(NEP-2021 Scheme 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 resolving power?
- 2) Define Mycoplasma.
- 3) Freeze drying method of Preservation.
- 4) What is disinfection?
- 5) Contributions of Dmitri Iwanowski.
- 6) What is an attenuated vaccine?

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PART - B

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

- 7) List out Koch's postulates.
- 8) Explain Whittaker's five kingdom classification.
- 9) Describe dry heat method of sterilization with reference to hot air oven.
- 10) Differentiate between Archaeobacteria and Eubacteria.
- 11) Explain conjugation.
- 12) Economic importance of viruses.

[P.T.O.]



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PART - C

III. Give comprehensive account on any Four of the following:

(4×8=32)

- 13) What is culture media? Explain different kinds of routine media.
 - 14) Describe the life cycle of puccinia on Primary host.
 - 15) Give an account of economic importance of bacteria in agriculture and industry.
 - 16) Describe the construction and working principle of SEM.
 - 17) Explain the lytic cycle of bacteriophage.
 - 18) Define microbial growth . Explain different phases of growth.
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