



DCBT201

Reg. No.

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II Semester B.Sc. (NEP) Degree Examination, October - 2022

BIOTECHNOLOGY
Microbiological Methods
Paper : II



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any **four** questions for each section.

SECTION - A

I. Answer any Four of the following.

(4×2=8)

1. What is numerical aperture?
2. What are microbicidal agents?
3. What is Tyndallization?
4. Define natural media. Give an example.
5. Name any two antifungal agents.
6. What is endospore staining? Mention the stains used.

SECTION - B

II. Answer any Four of the following.

(4×5=20)

7. Write a note on working principle and applications of centrifuge. **(2+3)**
8. What is sterilization. Explain moist heat sterilization. **(2+3)**
9. What is pasteurization? Add a note on its technique. **(2+3)**
10. Write a note on maintenance and preservation of pure culture. **(2+3)**
11. What is streak plate? Explain the method of culturing organisms. **(2+3)**
12. What are antibacterial substances? Add a note on assessment of antibacterial activity. **(2+3)**

[P.T.O.]



(2)
SECTION - C

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III. Answer any **Four** of the following. (4×8=32)

13. Describe the construction working principle and application of TEM in detail. (2+3+3)
 14. What is Beer - lambert's law. and add a note on spectrophotometer. (2+6)
 15. What is filtration? Explain in detail sterilization by filtration method. (2+6)
 16. Write a note on
 - a. Pour plate method.
 - b. Spread plate method. (4+4)
 17. What is microdilution? Explain its methodology. (2+6)
 18. Write a note on : (4+4)
 - a. XDR.
 - b. CPE.
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