



DCBT 201

II Semester B.Sc. Examination, Oct./Nov. 2022
(NEP Scheme)
Paper – II : BIOTECHNOLOGY
Microbiological Methods

Time : 2½ Hours

Max. Marks : 60

Instruction : Draw neat labelled diagram wherever necessary.

SECTION – A

I. Write short answers on the following :

(5×2=10)

- 1) Magnification.
- 2) Disinfectant.
- 3) Selective media.
- 4) HEPA.
- 5) Antifungal agents.



SECTION – B

II. Answer **any four** of the following :

(4×5=20)

- 6) Explain the working principle and application of chromatography.
- 7) Write a note on maintenance and preservation of culture.
- 8) What is sterilization ? Comment on radiation method.
- 9) Explain disc and agar well diffusion methods.
- 10) Describe the principle and the procedure involved in structural staining.

SECTION – C

III. Answer **any three** of the following :

(3×10=30)

- 11) With neat labeled diagram, explain the principle and construction of electron microscope.
- 12) Explain chemical method of sterilization.
- 13) Define culture media. Comment on the culture media used in microbial growth.
- 14) Explain mode of action of antibacterial and antifungal assessment.
- 15) Enumerate the principle and application of spectrophotometer.