



B.Sc. II Semester Degree Examination, September/October - 2023

BIOTECHNOLOGY

Microbiological Methods

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : (i) Answer **all** the sections.

(ii) Draw diagrams wherever necessary.

SECTION-A

1. Answer the following sub-questions. 10x1=10
- What is Microbiology ?
 - What is Antiseptic ?
 - Define Agar.
 - Expand SEM.
 - What is positive staining ? Give an example.
 - Define Auxochrome.
 - What do you mean by disinfection ?
 - What is other name of Special Media ?
 - What is the objective of flagella staining ?
 - Expand MDR.

SECTION-B

Answer **any four** of the following questions. 4x5=20

- Write a short note on Confocal Microscopy.
- Briefly explain culture media based on consistency.
- Describe briefly about Spread plate method.
- Enumerate the applications of HEPA.
- Give an account of Acid Fast Staining.
- Explain the Antibiotics Sensitivity Testing.



SECTION-C

Answer **any three** of the following questions.

3x10=30

8. Give the detail account of chromatography.
9. Describe the different methods of isolation of Bacteria and fungi.
10. Explain in detail about the principles of staining.
11. Write an explanatory note on Autoclave with a schematic diagram.
12. Explain in detail about the Antimicrobial Agents.

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