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21BSC2C2BTL



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

(BT): Microbiological Methods

Time: 3 Hours Maximum Marks: 60

Note: Answer all Sections.

SECTION - A

1. Answer the following Sub-questions.

10x1=10

- (a) Expand SEM.
- (b) Define Germicide.
- (c) What is Selective media?
- (d) What are Acidic Stains?
- (e) What is Ultracentrifuge?
- (f) Expand XDR.
- (g) What is HEPA?
- (h) Name any two Antifungal Agents.
- (i) Mention any two chemical agents for Sterilization.
- (j) Name the Stain used for staining the capsule.

SECTION - B

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

4x5 = 20

- 2. Briefly explain the Special Stain techniques.
- **3.** Describe the principle and applications of moist heat Sterilization.
- **4.** Write a short note on Antiviral Agents.
- **5.** Give an account of Serial dilution method for Isolation of Bacteria.
- **6.** Differentiate between Compound and Electron Microscopes.
- 7. Explain briefly about principle, precautions and uses of Laminar air flow.

SECTION - C

Answer any three of the following questions.

3x10=30

- 8. What is Sterilization? Explain in detail about the methods of Sterilization.
- **9.** Give a detailed account of Chromatography.
- 10. Explain the different methods of Preservation in Bacterial Culture.
- 11. What are Antimicrobial Agents? Explain Antibiotics, Antiseptics and Disinfectants.
- 12. Describe the different methods of isolation of Bacteria and Fungi.

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