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II Semester B.Sc. Degree Examination, September - 2021

**MICROBIOLOGY**

**Microbial Taxonomy and Culture Techniques**

**(CBCS Scheme Freshers and Repeaters)**

**Paper:II**

**Time : 3 Hours**

**Maximum Marks : 70**

**Instructions to Candidates:**

1. Answer **ALL** Sections.
2. Draw Diagrams wherever necessary.

**SECTION - A**

**I** Answer the following.

**(5×2=10)**

1. Enriched Medium.
2. Prions.
3. Peptidoglycan.
4. Phototroph.
5. Ascocarp.

**SECTION - B**

**II** Answer any **FOUR** of the following :

**(4×5=20)**

6. Write a short note on structure of Viruses.
7. Explain the Bacterial Growth Curve.
8. Brief out the salient features of Protozoa.
9. Give a brief account on classification of Bacteria based on temperature and pH.
10. Mention any five differences between Archaeobacteria and Eubacteria.

**[P.T.O.]**



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**SECTION - C**

**III. Answer any THREE of the following.**

**(3×10=30)**

11. Describe the ultrastructure of bacteria.
12. Explain Isolation of bacteria by serial dilution, Pour Plate and Spread Plate technique.
13. Emphasize on structure and Reproduction in Aspergillus.
14. Discuss the different types of Culture Media.
15. Substantiate Structure, Replication and Significance of HIV.

**SECTION - D**

**IV. Answer the following in One Sentence.**

**(10×1=10)**

16. Capsomere.
  17. Mucilaginous Sheath.
  18. Vegetative Cell.
  19. Muramic Acid.
  20. Micronutrients.
  21. Obligate Anaerobe.
  22. Zygospore.
  23. Plaque.
  24. Turbidometry.
  25. Agar agar.
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