

Scanned

R8

25BBO101

**UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR  
AT THE END OF FIRST SEMESTER  
BOTANY – DIVERSITY OF MICROBES (B.Sc. HONOURS-MAJOR)  
(v.e.f. Admitted Batch 2025-26)**

**Time: 3 Hours**

**Maximum: 70 Marks**

**Section-A**

**Answer any Five Questions.**

**5x4=20**

1. Miller & Urey experiment.
2. Economic importance of Cyanobacteria.
3. Role of Bacteria in Industry.
4. Microbes of the Phyllosphere.
5. Microbial Antibiotics.
6. Significance of viruses in vaccine production.
7. Role of Bacteria in Medicine.
8. Bacterial Biopesticides.

**Section-B**

**Answer All Questions.**

**5x10=50**

9. a) Explain the six kingdom classification of Carl woese.  
(Or)  
b) Describe the various methods of transmission of viruses in plants.
10. a) Describe the process of cultivation of Spirulina.  
(Or)  
b) Explain the general characteristic features of Archaeobacteria.
11. a) Give an account on structure of Bacterial cell.  
(Or)  
b) Explain the nutrition in Bacteria.
12. a) Give an account on various microbial interactions.  
(Or)  
b) Describe the role of microbes in soil fertility.
13. a) Give an account on Bacterial biofertilizers & their applications.  
(Or)  
b) Give a brief account on symptoms of viral diseases in plants.