



K25U 0169

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree (C.B.C.S.S. – OBE-Regular/Supplementary/  
Improvement) Examination, April 2025**

**(2019 to 2022 Admissions)**

**CORE COURSE IN MICROBIOLOGY**

**6B15MCB : Agricultural Microbiology and Plant Pathology**

Time : 3 Hours

Max. Marks : 40

**PART – A**

Answer **all** the questions. **Each** question carries **1** mark.

**(6×1=6)**

1. Define NPV.
2. Leghaemoglobin.
3. Syntrophism.
4. Comment on Azospirillum.
5. Quick wilt of pepper.
6. Xanthomonas citri.

**PART – B**

Answer **any 6** questions. **Each** question carries **2** marks.

**(6×2=12)**

7. Birth of Agricultural Microbiology.
8. Modern Techniques in Plant Pathology.
9. Nitrogenase enzyme complex.
10. Define microbial inoculants with example.
11. Explain Mycobiont with key functions and roles.

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12. Ashby's mannitol agar.
13. Crop rotation.
14. Symptoms and pathogen of coffee rust.

PART – C

Answer **any 4** questions. **Each** question carries **3** marks.

**(4×3=12)**

15. Define endomycorrhiza with example.
16. How do *Bacillus thuringiensis* act on insects ?
17. Comment on Bordeaux Mixture.
18. Explain plant quarantine.
19. Write the importance of *Azolla-Anabaena*.
20. Explain role and significance of Phytoalexins.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks.

**(2×5=10)**

21. Explain negative interactions with examples for each type of negative interactions.
  22. Describe the production of bacterial biofertilizers-*Rhizobium*, *Azotobacter* and *Azospirillum*.
  23. Analyse the role of viral and fungal biopesticides.
  24. What is Phyllosphere ? Discuss about Phyllosphere microflora and their importance.
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