

QP CODE: 24020201



Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, MAY 2024**

**Second Semester**

B.Sc Zoology and Industrial Microbiology Model III Double Main

**Complementary Course - ZI2CRT06 - AGRICULTURAL MICROBIOLOGY**

2017 ADMISSION ONWARDS

F1BD38C9

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Important roles of microorganisms in agriculture.
2. Amensalism.
3. Guano deposit.
4. Rhizoplane.
5. Ectomycorrhiza.
6. Citrus canker.
7. Rotting.
8. Grassy shoot diseases of sugar cane.
9. Root nodules.
10. Seed treatment.
11. Azolla.
12. Fungal pesticides.

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Describe zooxanthellae and mutualism.
14. Discuss biochemistry and physiology of nitrogen fixation.
15. Describe carbon cycle.
16. Write any two nitrogen fixing bacteria and explain their production and field applications.
17. Write short notes on bacterial plant diseases.
18. Describe the fungal diseases.
19. What is azospirillum? What are the important steps involved in the production of azospirillum inoculant?
20. Describe Bacterial pesticides.
21. Define viral pesticide. Write short notes on NPVS, Non- occluded Baculoviruses and Granulosis virus.

(6×5=30)

### Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the parasitism, predation and neutralism.
23. Explain the plant microbe interaction.
24. Define viral disease. Give an account on TMV and explain the structure of TMV with neat diagram.
25. Discuss briefly the production and field application of azotobacter and Rhizobium.

(2×10=20)

