

Model Question paper

B.Sc. DEGREE (C.B.C.S) EXAMINATION

Second Semester

B.Sc. Industrial microbiology and zoology (Double core)

Core Course –AGRICULTURAL MICROBIOLOGY- ZI2CRT06

Time: 3 Three Hours

Marks: 60

PART A

*Answer any **ten** questions.*

Each question carries one mark.

1. Rhizobium
2. VAM fungi
3. Symbiosis
4. Bacillus thuringiensis
5. TMV
6. Necrosis
7. Amensalism
8. Rhizosphere
9. Nif gene
10. Mutualism
11. Denitrification
12. Tikka disease

(10x1=10)

PART B

*Answer any **six** questions.*

Each question carries 5 marks.

13. What is a bacterial pesticide? Explain Bacillus thuringiensis, Bacillus popilliae and Genetically Engineered Bacteria?
14. Write short notes on Vesicular- Arbuscular Mycorrhizal fungi?

15. Give short note on nitrogen cycle?
16. Difference between Mutualism and Parasitism?
17. What are the causal organism, symptoms, transmission and controlling methods of Tikka disease?
18. What is azospirillum? What are the important steps involved in the production of azospirillum inoculant?
19. Give an account on TMV and explain the structure of TMV with neat diagram?
20. Define viral pesticide. Write short notes on NPV_S, Non-occluded Baculoviruses and Granulosis virus?
21. Difference between Commensalism and Predation?

(6x5=30)

PART C

*Answer any **two** questions.*

Each question carries 10 marks.

22. Describe morphology, isolation and mass production of VAM fungi. Explain their field application and importance?
23. What are microbial pesticides? Give an account on bacterial pesticides and viral pesticides?
24. What are Microbial interactions and its different types?
25. What are nitrogen fertilizers? Discuss briefly the production of rhizobium inoculant and their field applications?

(2x10=20)