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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

Core Course XIII—AGRICULTURAL MICROBIOLOGY

(For B.Sc. Microbiology)

[2013–2016 Admissions]

Time : Three Hours Maximum Marks : 80

Part A

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

Write about :

1. Rhizosphere.
2. A negative interaction between microbes and animals.
3. Synergism.
4. Mycorrhizae.
5. A bioderived pesticide.
6. Endophyte.
7. Cellulolytic bacteria.
8. Symbiosis.
9. Vector.
10. Myco viruses.

(10 × 1 = 10)

Part B

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

Write short notes on :

11. Importance of pheromones in pest management.
12. 'Algal bloom causes death of organism." Explain the type of interaction.
13. RNAi pesticide.
14. Silage bacteria.
15. Fire curing and air curing in tobacco.
16. Field sanitation.
17. Commensalism.
18. Fungal pesticides.

Turn over

19. Disadvantages of IPM.
20. Amensalism.
21. Biopesticides.
22. Mycoparasites.

(8 × 2 = 16)

Part C

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

23. Explain integrated pest management.
24. Explain how viral diseases infect and transmit in plants.
25. Write about phyllosphere microflora.
26. Write about microbial warfare on plants.
27. Explain how fungal diseases can be controlled.
28. 'Plants are in warfare with microbes.' Explain.
29. Write about role of microbes in retting.
30. Give an account on defense mechanism in animals.
31. Write a note parasitism and predation.

(6 × 4 = 24)

Part D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write an account on natural defence mechanism in plants to fight off bacterial and fungal infections.
33. Write an account on rumen mircobiology. Explain how microbes helps in digestion.
34. Explain how plant diseases can be controlled using biological methods.
35. Give an account on common microbial diseases in plants and its impact.

(2 × 15 = 30)