K21U 0137

Reg. No. : .....

Name : .....

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.) Examination, April 2021
(2014 – 2018 Admissions)
CORE COURSE IN MICROBIOLOGY
6B17MCB : Agricultural Microbiology and Plant Pathology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** the **four** questions. **(1×4=4)**

1. Who is the father of Plant Pathology ?
2. Causal organism of red rot of sugar cane.
3. Name the oxygen scavenger in root nodules of leguminous plants.
4. *Erwinia* is Not a PGPR (True or False).

SECTION – B

Answer very briefly on **any seven** questions out of 14. **(2×7=14)**

5. Martinus Willium Beijerinck.
6. Humus.
7. *Anabaena azollae.*
8. Disease triangle.
9. Rhizosphere.

P.T.O.

10. Bordeaux mixture.

11. Heterocyst.

12. Trichoderma.

13. *Xanthomonas axonopodis pv. Citri.*

14. Virulence v/s Pathogenicity.

15. Biofertilizer.

16. VAM.

17. Rice blast.

18. Parasitism.

SECTION – C

Answer **any four** questions out of 8 briefly. **(4×3=12)**

19. Factors influencing disease development in plants.

20. Production and applications of *Rhizobium* as biofertilizer.

21. Nitrogenase enzyme.

22. Write short note on classification of fungicides.

23. Give an account of Fungal diseases in spices.

24. Give short notes of the following plant diseases :
    a) Rhizome rot
    b) Marble mosaic disease.

25. Commercial importance of *Azolla-Anabaena.*

26. Lithosphere.

SECTION – D

Answer **any two** questions out of six. **(2×5=10)**

27. Write an essay on Mycorrhizae.

28. Discuss the causal organism, symptoms and control measures of the following diseases in brief.
    a) Quick wilt of pepper.
    b) Wheat rust.
    c) Bud rot of coconut.

29. Briefly discuss on the following :
    a) Importance of soil microflora.
    b) Effect of Rhizosphere and plant microbe interaction.

30. What is nitrogen fixation ? Explain the mechanism of symbiotic nitrogen fixation.

31. Write a short note on various biological control measures of plant diseases.

32. Briefly discuss the resistance strategies adopted by plants against plant diseases.
