



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.
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