K19U 0132



Reg. No.	• • •••••••••••
Name :	

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.) Examination, April 2019 (2014 Admission Onwards) CORE COURSE IN MICROBIOLOGY 6B17 MCB: Agricultural Microbiology and Plant Pathology

Time: 3 Hours

Max. Marks: 40

Instruction: Draw diagrams wherever necessary.

SECTION - A

Answer all questions. Each question carries 1 mark.
The hard and rigid outer layer of earth is called
2. Group of bacteria that colonize rhizosphere soil and beneficial to crops are referred as
3. The causative agent of rhizome rot of ginger is
4. The only family of enzymes known to catalyze the reduction of N_2 to NH_3 is (4×1=4)

SECTION -- B

Answer any seven questions of the following. Each question carries 2 marks.

- 5. Humus
- 6. R:S ratio
- 7. Hartig net
- 8. Dinitrogenase reductase
- 9. Morphological resistance of plants to acquire infection
- 10. R genes
- 11. Cercospora capsici

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- 12. Biopesticides
- 13. NOD genes
- 14. Pink disease of rubber.

 $(7 \times 2 = 14)$

SECTION - C

Answer any four questions of the following. Each question carries 3 marks.

- 15. Bacterial flora of soil
- 16. Production of Rhizobium inoculants
- 17. Rhizosphere effect
- 18. Free living nitrogen fixing organisms
- 19. Control of plant diseases using chemical agents
- 20. Bud rot of Arecanut.

 $(4 \times 3 = 12)$

SECTION - D

Answer any two questions of the following. Each question carries 5 marks.

- 21. Discuss the beneficial effects of symbiotic and non-symbiotic association of microbes with plants. Write a note on soil fungi.
- 22. Discuss the classification of mycorrhizae. Write on the significance of mycorrhizae in agriculture.
- 23. Write a note on biocontrol agents used for management of plant diseases.
- 24. Discuss the etiology, symptoms, epidemiology and control measures of quick wilt in pepper and grey leaf blight of coconut. (2×5=10)