



K22U 0137

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Supple./Improv.)
Examination, April 2022
(2016-2018 Admissions)
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.

1. The crust and uppermost mantle that forms the hard and rigid outer layer of earth is _____
2. The recommended application method of Azospirillum liquid biofertilizer for rice crops is _____
3. The marble mosaic disease of cardamom is caused by _____
4. The heterodimer sub-unit of nitrogenase that uses the electron provided to reduce N_2 to NH_3 is _____

(4×1=4)

SECTION – B

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

5. Actinomyctes
6. Root inhabiting fungi
7. Erycoid mycorrhizae
8. Carriers for bioinoculants
9. Pattern triggered immunity in plants

P.T.O.

K22U 0137



10. Post infection plant defenses
11. *Phytophthora palmivora*
12. Bordeaux mixture
13. Root nodules
14. Crop rotation.

(7×2=14)

SECTION – C

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

15. Rhizosphere effect
16. Nitrogen fixing micro-organisms
17. Classification of Mycorrhizae
18. Methods of disease transmission in plants
19. Merits and demerits of biopesticides over chemical pesticides
20. Black rust disease of wheat.

(4×3=12)

SECTION – D

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

21. Discuss about the composition of lithosphere. Write a note on microflora of soil.
22. Discuss about the merits and demerits of biofertilizers. Describe the production and application of *Rhizobium* inoculants.
23. Discuss about the resistance mechanisms in plants. What are the factors influencing development of plant diseases ?
24. Discuss the etiology, symptoms and management of citrus canker and bacterial leaf blight of banana.

(2×5=10)