

Reg. No.: 12. What is the agricultural significance of Azospiritum?

VI Semester B.Sc. Degree (CBCSS - Reg./Supple./Imp.) **Examination, May 2018** CORE COURSE IN MICROBIOLOGY 6B17MCB: Agricultural Microbiology and Plant Pathology (2014 Admn. Onwards)

Max. Marks: 40 Angiver any four of the following. Each que tion carries 3 marks. Time: 3 Hours

SECTION - A

- 2. The causative agent of coffee leaf rust is _____
- 3. Bordeaux Mix is a mixture of _____ and ____ and ____ and ____
- _ protects nitrogenase from oxygen in root nodules of leguminous $(4 \times 1 = 4)$ plants.

SECTION - B

Answer any seven of the following. Each question carries 2 marks. Answer any two of the following. Each question parties 5

- 5. What is an endophyte? 21. What is thizosphere effect? Discuss the rate of plant roots and
- 6. What is humus?
- 7. What is rhizosheath? Tamana amalana amalana amalan auditev entre est est
- 8. Describe the symptoms of bud rot of arecanut. the steps involved in the production of Ahizobium in
- 9. What are diazotrophs?
- 10. Name biocontrol agents used against root-knot nematodes.
- 11. What is R/S ratio?

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- 12. What is the agricultural significance of Azospirillum?
- 13. Describe the morphology of Papaya mosaic virus.
- 14. Differentiate autochthonous and allochthonous microorganisms of a habitat.

 $(7 \times 2 = 14)$

SECTION - C

MCB: Agricultural Microbiology and Plant Pathology

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

Write short notes on:

- 15. Symbiotic nitrogen fixation.
- 16. Classification of mycorrhizae.
- 17. Phosphobacteria.
- 18. Chemical control of plant diseases.
- 19. Quick wilt of pepper. The land the land of the lan
- 20. Factors influencing soil microflora.

 $(4 \times 3 = 12)$

1. The process of soil formation is called

SECTION - D

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

- 21. What is rhizosphere effect? Discuss the role of plant roots and microorganisms in this mutualistic interaction.
- 22. Describe various defense mechanisms of plants against pathogens.
- 23. What are the advantages of biofertilizers over chemical fertilizers? Describe the steps involved in the production of Rhizobium inoculants.
- 24. Discuss the etiology, pathogenesis, symptoms and control of following plant diseases:
 - a) Rhizome rot of ginger
 - b) Black rust disease of wheat.

 $(2 \times 5 = 10)$