Reg. No. : ....

Name : ....

VI Semester B.Sc. Degree (CBCSS–Regular) Examination, May 2017
CORE COURSE IN MICROBIOLOGY
6B17 MCB : Agricultural Microbiology and Plant Pathology
(2014 Admn.)

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions. **Each** question carries **1** mark.

1. Name the scientist regarded as the founder of soil microbiology.

2. The blister blight of tea is caused by

3. The outermost layer of the earth that is composed of soil and subject to soil formation process is called

4. The dark organic matter that forms in the soil when plant and animal matter decays is called

(4×1=4)

SECTION – B

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

5. What is the significance of *Azotobacter* in agriculture ?

6. Define mineralization.

7. What is the aim of integrated pest control ?

8. What is leghaemoglobin ?

9. What is Bordeaux mixture ?

10. What are the characteristics of pink disease on rubber ?

P.T.O.

11. What is PGPR ?

12. Define organic farming.

13. Define parasite.

14. What are phosphobacteria ? Give one example. **(7×2=14)**

SECTION – C

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

Write short notes on :

15. Biological control of plant diseases.

16. Rhizosphere effect.

17. Citrus canker.

18. Root nodule formation.

19. Plant defense mechanisms against pathogens.

20. Marble mosaic disease of cardamom. **(4×3=12)**

SECTION – D

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

21. Write note on microflora of soil. Discuss various factors influencing microbial flora of soil.

22. Write a note on different types of mycorrhizae and their significance in agriculture.

23. Discuss the production and application of Rhizobial biofertilizers.

24. Discuss the etiology, pathogenesis, symptoms and control of following plant diseases :

    a) Leaf blight of maize   b) Blast disease of rice   **(2×5=10)**