

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, October 2019

First Degree Programme Under CBCSS

Botany

Core Course

**BO 1341- MICROBIOLOGY, PHYCOLOGY, MYCOLOGY, LICHENOLOGY
AND PLANT PATHOLOGY**

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

- I. Very short answer, answer all questions, 1 word to maximum of two sentences.
1. Name a Gram positive bacterium
2. _____ is the symbiotic bacteria inhabiting the root nodules of leguminous plants.
3. What are hormogonia?
4. Name an alga with heterotrichous thallus.
5. What are amylostars?
6. Define mycelium.
7. What is meant by coenocytic condition?
8. Describe the dolipore septa.

P.T.O.

9. Name the causal organism of Citrus canker.
10. What are the components of Bordeaux mixture?

(10 × 1 = 10 Marks)

II. Short answers, not to exceed one paragraph, answer any **eight** questions.

11. What are mesosomes?
12. Comment on PPLOs.
13. Differentiate globule and nucle.
14. Write a brief note on diplobiontic life cycle.
15. What are pyrenoids? What is its function?
16. What is red tide? Name an alga causing the red tide.
17. Describe the structure of ascus.
18. Give an account on the sexual reproduction in Rhizopus.
19. Explain the structure of apothecium of Peziza.
20. Why Deuteromycotina is called as 'fungi imperfectii'?
21. List any four symptoms of Citrus canker.
22. Mention any two control measures of root wilt of coconut.

(8 × 2 = 16 Marks)

III. Short essay, not to exceed **120** words, Answer any **six** of the following.

23. Write a brief note on the economic importance of bacteria.
24. Describe the pigmentation in algae.

25. Discuss the post fertilization change in Polysiphonia.
26. Explain the thallus structure in volvox.
27. Describe the structure of basidiocarp of Agaricus with a labeled diagram.
28. Explain the thallus organization in lichen.
29. Write a brief account on the economic importance of fungi.
30. What are the general characters of Myxomycotina?
31. Write a note on the symptoms, casual organism and control measures of tapioca mosaic disease.

(6 × 4 = 24 Marks)

IV. Long essay, answer any **two** of the following.

32. Write an essay on different methods of reproduction in bacteria.
33. Explain the thallus organization in algae with suitable examples.
34. Outline the classification of algae proposed by F.E. Fritsch.
35. With suitable diagram, write an essay on the life cycle of *Puccinia*.

(2 × 15 = 30 Marks)
