



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

First Semester Career Related B.Sc. Degree Examination, November 2014

First Degree Programme under CBCSS

Core Course – I: (for Botany and Biotechnology)

AUBB141: Phycology, Mycology, Lichenology and Plant Pathology

Time: 3 Hours

Max. Marks : 80

SECTION – A

Answer ALL the following each in a word or as short notes.

1. Name the algal group which is the source of Agar.
2. Heterocysts.
3. Necrosis.
4. Name the scientist who discovered heterothallism for the first time.
5. Frustules made ofare characteristic of diatoms.
6. Name the causative organism of Citrus canker.
7. Carrageenan.
8. Paraphysis.
9. Name the fungus known as the sugar fungus.
10. Which fungus is called as white rust ?

(10 x 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding one paragraph.

11. What are the two methods of vegetative reproduction in Lichens ?
12. What are the symptoms of Root wilt of Coconut ?
13. What is the economic importance of Lichens ?
14. What is Isogamy ? Explain it with a labeled diagram.

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15. Briefly explain algal bloom.
16. What are the general characters of Myxomycotina ?
17. What are the salient features of *Vaucheria* ?
18. Write the method for preparation of Tobacco decoction.
19. Draw a well labeled basidiocarp of *Agaricus*.
20. Draw and label the coenobium of *Volvox*.
21. What are red tides ?
22. Explain the process of budding in yeasts.

(8 x 2 = 16 Marks)

SECTION – C

Short essay type: Answer any SIX questions.

23. Write the classification of lichens based on their thallus structure.
24. Differentiate perithecium from apothecium with the help of labeled diagrams.
25. Describe the method of cell division in *Oedogonium*.
26. What is heterothallism ? Give an example.
27. Discuss the role of blue green algae as biofertilizer.
28. Describe the reproduction and life cycle of *Rhizopus*.
29. What are the parasitic adaptations of *Albugo* ?
30. Describe the stroma of *Xylaria*.
31. Write the causative organism, symptoms and control measures of Tapioca Mosaic Virus.

(6 x 4 = 24 Marks)

SECTION – D

Long essay type: Answer any TWO questions.

32. Write an account on the economic importance of fungi.
33. Explain the life cycle of *Puccinia*.
34. Compare the four classes of Ascomycotina.
35. Describe in detail the range of thallus structure and evolutionary trends in green algae.

(2 x 15 = 30 Marks)

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