



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Third Semester B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Core Course: Botany – II

**AUBO341: Microbiology, Phycology, Mycology, Lichenology and
Plant Pathology**

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL questions in one or two sentences.

1. Phytoalexins
2. Sclerotium
3. Coprophilous fungi
4. Algal bloom
5. Isidia
6. Heterocyst
7. Mycorrhiza
8. Perithecium
9. Plasmid
10. Retrovirus

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, each in a short paragraph not exceeding 50 words.

11. What is mesosome ? Write its functions.
12. Write the causative organism and symptoms of Citrus canker.
13. What is heterothallism ? Who discovered it ?
14. Draw a neat, labeled diagram of Sargassum axis T.S.

P.T.O.

15. Give an account on soredia.
16. Briefly explain the internal structure of Agaricus gill.
17. Give a short note on Mycoplasma.
18. Differentiate between cleistothecium and apothecium.
19. Describe the structure of vegetative thallus of Oedogonium.
20. Differentiate between holocarpic and eucarpic fungi.
21. Briefly describe the thallus and cell structure of Cladophora.
22. Give a brief account on pyrenoid.

(8 × 2 = 16 Marks)

SECTION – C

Answer any SIX questions, each in a paragraph not exceeding 120 words.

23. With the help of a neat, labeled diagram explain the internal structure of Peziza apothecium.
24. Explain the process of transformation in bacteria.
25. Write an account on the sex organs in Chara.
26. Give an account on the causative organism, symptoms and control measures of 'Blast disease of paddy'.
27. With the help of a neat, labeled diagram explain the internal structure of Usnea thallus.
28. Give note on asexual reproduction in Penicillium.
29. Write a short note on the asexual reproduction in Volvox.
30. Describe the thallus organization in Chlorophyceae.
31. Write an account on Bordeaux mixture.

(6 × 4 = 24 Marks)

SECTION – D

Answer any TWO questions, not exceeding four pages.

32. Name one heteroecious fungus you have studied and describe its life cycle.
33. Briefly describe the life cycle of Polysiphonia, with suitable diagrams.
34. Write an essay on the economic significance of algae.
35. With the help of a labeled diagram, explain the ultra structure of a bacterium cell.

(2 × 15 = 30 Marks)

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