



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No.:.....

Name:.....

Second Semester B.Sc. Degree Examination, June 2015

First Degree Programme under CBCSS

Complementary Course: Botany – II (for Zoology)

**AUBO231.2e: Phycology, Mycology, Lichenology, Bryology, Pteridology,
Gymnosperms and Plant Pathology**

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL questions in one or two sentences.

1. Nannandrium
2. Stone worts
3. Heterocyst
4. Pycnidium
5. Pycnoxylic wood
6. Cleistothecium
7. Dikaryon
8. Dwarf shoots and long shoots
9. Holocarpic fungi
10. Protonema

(10 x 1 = 10 Marks)

SECTION – B

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

11. Bordeaux mixture.
12. What is Cystocarp ?
13. Explain the mechanisms of reproduction in *Rhizopus*.

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14. Write the economic importance of *Chlorella*.
15. Explain the structure of female cone in *Pinus*.
16. Give the salient features of *Usnea* apothecium.
17. Write a note on asexual reproduction in *Penicillium*.
18. Explain the structure of Rhizophore in *Selaginella*.
19. Explain the thallus structure of *Nostoc*.
20. Enumerate the economic importance of Bryophytes.
21. Rust fungi are called polymorphic. Why ?
22. Outline the steps involved in the cell division of *Oedogonium*.

(8 x 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. Explain the structure of *Funaria* sporophyte.
24. What are Lichens ? Explain different types of lichens and how they are important ?
25. With the help of a suitable diagram describe the internal structure of *Peziza* apothecium.
26. Write the causative organism, symptoms and control measures of Quick wilt of Pepper.
27. Explain the structure of *Pinus* needle and mention its xerophytic adaptations.
28. Enumerate the beneficial and harmful effects of Fungi.
29. Explain the thallus structure of *Sargassum*. Add a note on their receptacles.
30. Give an account of the sex organs in *Chara*.
31. Enumerate the structure of *Pteris* petiole.

(6 x 4 = 24 Marks)

SECTION – D

Long essay type : Answer any Two questions.

32. With the help of suitable diagrams, explain the life cycle of *Puccinia*.
33. Give an account on the life cycle of *Polysiphonia*.
34. Enumerate the thallus structure, reproduction mechanisms and life cycle in *Riccia*.
35. Explain the life cycle of *Selaginella*. Add a note on Heterospory and seed habit.

(2 x 15 = 30 Marks)

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