



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No.:.....

Name:.....

Second Semester B.Sc. Degree Examination, June 2016

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. Autospore.
2. Most common brown alga in Indian Ocean.
3. Chlorellin.
4. Heterospory.
5. Name a coprophilous Fungus studied.
6. Name the causative organism of powdery mildew of rubber.
7. Rhizoids in Riccia.
8. Moss capsule.
9. Name the Gymnosperm showing winged pollen grain.
10. Gaidukov phenomenon.

(10 × 1 = 10 Marks)

SECTION – B

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

11. Write the composition of 1% Bordeaux mixture.
12. What is cystocarp ?
13. Briefly explain asexual reproduction in Rhizopus.

P.T.O.

14. Write two economic importance of *Chlorella*.
15. What do you meant by Biopesticide ? Give an example.
16. Give a short account on the apothecium of Usenea.
17. Write note on Heterocyst.
18. Explain the structure of Pinus megasporophyll.
19. Explain the structure of Selaginella strobilus.
20. Give an account on the gametophyte of Funaria.
21. Describe 2 symptoms and causative organism of Tapioca mosaic virus.
22. Describe briefly the fertile receptacles in Sargassum.

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. Write any four economic importances of Lichens.
24. Describe sorus. Example for a plant having sori.
25. With the help of diagrams explain the structure of nucule of Chara.
26. Draw a neat labeled diagram of T.S of Pinus needle.
27. Explain different types of pigments found in Algae.
28. Briefly describe the formation of cap cell.
29. Explain the internal structure of Riccia thallus.
30. Explain the sexual reproduction in Oedogonium.
31. Write how to prepare tobacco decoction.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any Two questions.

32. Explain the post fertilization changes in Polysiphonia.
33. Explain the range of thallus structure in Algae.
34. With the help of suitable diagrams, explain the life cycle of *Puccinia*.
35. Explain in detail the habit, anatomy of petiole, sporophyll and life cycle of Pteris.

(2 × 15 = 30 Marks)

