

Reg. No

Name

22U158

B.Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 :COMPLEMENTARY BOTANY FOR B. Sc. ZOOLOGY

COURSE : 19U1CPBOT1 : CRYPTOGRAMS, GYMNOSPERMS AND PLANT PATHOLOGY

(For Regular – 2022 Admission and Improvement / Supplementary - 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Name two algae from where agar is extracted.
2. How the leaf mosaic disease of tapioca does get spread?
3. Name a pteridophyte with rhizophore.
4. What is fruticose lichen?
5. To which generation does calyptra of *Riccia* belong to?
6. Name the negatively geotropic root in *Cycas*.
7. What is the nature of reserve food material in Phaeophyceae?
8. Name the perfect state spore of taxon mastigomycotina.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Explain the ecological importance of Lichens.
10. Explain the development and structure of carpogonium in *Polysiphonia*.
11. Write a note on sporogonium in *Riccia*.
12. Write a note on the male cone of *Cycas*.
13. Explain amphigynous anthredium.
14. Explain the structure of *Riccia* sporophyte.
15. Name the organism responsible for nutfall of arecanut. How can it be controlled?
16. Mention four distinguishing features of pteridophytes.

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Comment on the structure and function of haustorium in *Phytophthora*.
18. Explain the post fertilization changes in *Riccia*.
19. Describe the structure of coralloid root and mention its importance.
20. Explain the development and structure of cystocarp of *Polysiphonia*.
21. With the help of labeled diagrams discuss and describe the rhizophore anatomy of *Selaginella* and discuss its morphological nature .
22. Name a disease caused by virus and describe the dissemination and controlling measures.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Explain the reproductive structure of *Riccia* with the help of suitable diagrams.
24. Explain alternation of generation with reference to the life cycle of Polysiphonia.
25. With the help of labeled diagrams, describe the male and female cones structure in *Selaginella*.
26. Give an account on the causative organism, etiology, symptoms and methods of control of blight disease of paddy.

(10 x 2 = 20)