

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, September 2022

First Degree Programme Under CBCSS

Botany

Complementary Course

BO 1231 : PHYCOLOGY, MYCOLOGY, LICHENOLOGY, BRYOLOGY,
PTERIDOLOGY, GYMNOSPERM AND PLANT PATHOLOGY

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary
PART – A

Answer **all** questions. **Each** question carries **1** mark.

1. What is conceptacle?
2. What is trichoblast?
3. What is akinete?
4. What are amyllum stars?
5. What is zygosporangium?
6. What is apothecium?
7. Name the alternate host of *Puccinia*.
8. Name the pathogen of Brown leaf spot of paddy.

9. What is protostele?
10. What is indusium?

(10 × 1 = 10 Marks)

PART – B

Answer **any eight** of the following. **Each** question carries **2** marks.

11. Write down the features of *Nostoc*.
12. Describe the cell structure of *Oedogonium*.
13. Comment on *Usnea*.
14. Write down the symptoms of Tapioca mosaic.
15. Comment on Rhizophore.
16. Write any two key features of Gymnosperms.
17. Comment on the sporophyte of *Riccia*.
18. Write the name of any two edible fungi.
19. Comment on spur shoot.
20. What is circinate vernation?
21. Write any two characters of *Chlorella*.
22. What is moss protonema?

(8 × 2 = 16 Marks)

PART – C

Answer **any six** of the following. **Each** question carries **4** marks.

23. Compare the features of microsporophyll and megasporophyll of *Pinus*.
24. List out the features of sporophyll of *Pteris*.

25. Illustrate the structure of thallus of *Riccia*.
26. Write an account on Powdery mildew of rubber tree.
27. Describe the asexual mode of reproduction in *Rhizopus*.
28. Distinguish the features of Cyanophyceae and Chlorophyceae.
29. Write a note on the economic importance of Bryophytes.
30. Distinguish Ascus and Basidium.
31. Enumerate the anatomical peculiarities of *Pinus* needle.

(6 × 4 = 24 Marks)

PART – D

Answer **any two** of the following. **Each** question carries **15** marks.

32. Describe the sexual reproduction in *Polysiphonia* with suitable diagrams.
33. Illustrate the life cycle of *Puccinia*.
34. With the help of a schematic diagram explain the life cycle of *Funaria*.
35. Describe the sexual reproduction of Selaginella with emphasis on heterospory.

(2 × 15 = 30 Marks)