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Second Semester B.Sc. Degree Examination, December 2021

First Degree Programme Under CBCSS

Botany

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

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

(Draw diagram wherever necessary)

SECTION – A

Answer **all** questions in **one** word or **two** sentences. Each question carries **1** mark.

1. Which is the causative organism of brown spot disease of paddy?
2. What is circinate venation?
3. Define autogamy.
4. What are fruticose lichens?
5. What is gemma?
6. What is dwarf male?
7. What are pyrenoids?
8. What is an akinete?
9. What are long shoots of Pinus?
10. Name a parasitic alga.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** of the following; not exceed **one** paragraph. Each question carries **2** marks.

11. Differentiate gametophyte from sporophyte.
12. What are soredia?
13. What is calyptra? Mention its function.
14. Define palmella stage. Cite an example.
15. Describe the structure of sporangia in Pteris.
16. What are tuberculate rhizoids?
17. What are the functions of elaters?
18. What are cap cells and its significance?
19. What is cleistothecium? Cite an example.
20. What is plasmogamy and its significance?
21. Write the importance of heterospory.
22. Briefly explain the role of algae in agriculture.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** of the following; not to exceed **120** words. Each question carries **4** marks.

23. Describe the macrandous type of life cycle in Oedogonium.
24. Describe the structure of sex organ in Riccia.
25. Give an account on the preparation and use of Tobacco decoction.
26. Describe the sex organs in Chara.
27. Explain the characteristic features of Zygomycotina.
28. Explain the development of basidiocarp in Agaricus.

29. "Selaginella shows a tendency towards seed habit". Justify the statement.

30. Briefly describe the symptoms and control measures of Quick wilt of Pepper.

31. List out the ecological and economical importance of lichens.

(6 × 4 = 24 Marks)

SECTION – D

Write an essay on **any two** of the following. Each question carries **15** marks.

32. Explain different methods of asexual reproduction in fungi with suitable examples.

33. Describe the life cycle of Puccinia with suitable diagrams.

34. Describe the sexual reproduction and post fertilization changes in Polysiphonia.

35. Explain the life cycle of Pinus.

(2 × 15 = 30 Marks)
