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T – 3235

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, August 2024

First Degree Programme under CBCSS

Botany

Complementary Course

BO 1231 : THALLOPHYTES, ARCHEGONIATAE AND PLANT PATHOLOGY

(2022 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

I. Answer **all** questions, each question carries **1** mark.

1. What is a diplontic life cycle?
2. List the pigments seen in Cyanophyceae.
3. What are amyllum stars?
4. Name a coprophilous fungus.
5. What is apospory?
6. What is columella?
7. Name a disease of paddy.
8. What is coenosori?

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9. What is a ligule?
10. List any two xerophytic characters of *Pinus* needle.

(10 × 1 = 10 Marks)

SECTION – B

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

11. Mention the functions of a heterocyst.
12. What are cap cells? How are they forming?
13. Critically analyze the economic importance of *Chlorella*.
14. List the identifying features of discomycetes.
15. List the morphological features of *Usnea* thallus.
16. List any two economic importance of lichen.
17. List the control measures of quick wilt of pepper.
18. Explain the role of fungi in medicine.
19. How does the capsule dehisce in *Funaria*?
20. What is ramentum?
21. Comment on the morphological nature of rhizophores in *Selaginella*.
22. What is a pycnoxylic wood?

(8 × 2 = 16 Marks)

SECTION – C

- III. Answer any **six** of the following not more than 120 words. Each question carries 4 marks.
23. Explain the morphological features of *Sargassum* thallus.
 24. Describe the thallus of *Polysiphonia*.
 25. Describe the sex organs in nannandrous species of *Oedogonium*.
 26. Explain the different types spores produced by a heteroecious fungi.
 27. Explain the structure of sporangium in *Rhizopus*.
 28. Briefly describe the method of preparation of a biopesticide.
 29. Explain the internal structure of *Riccia* thallus.
 30. Explain the features of female gametophyte of *Selaginella*.
 31. Describe the vegetative characters of gymnosperms.

(6 × 4 = 24 Marks)

SECTION – D

- IV. Write essay on any **two** of the following, each question carries 15 marks.
32. Explain the reproduction in *Pinus*.
 33. Describe the economic importance of bryophytes.
 34. Explain the life cycle of *Chara*.
 35. Discuss the reproduction in *Pteris*.

(2 × 15 = 30 Marks)