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Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, September 2023

First Degree Programme under CBCSS

Botany

Complementary Course

BO 1231 : THALLOPHYTES, ARCHEGONIATAE AND PLANT PATHOLOGY

(2022 Admission)

Time : 3 Hours

Max. Marks : 80

(Draw diagrams wherever necessary)

SECTION – A

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

1. What is a nannandrium?
2. List the pigments seen in Rhodophyceae.
3. What is a trichome?
4. What is a crozier?
5. What is conidia?
6. What are bulbils?
7. Mention the causative agent of tapioca mosaic disease.
8. What is mixed sori?
9. What is prothallus?
10. List any two Indian species of *Pinus*.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

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

11. List the method of reproduction in *Nostoc*.

12. What are cap cells? How are they forming?

13. Explain the single cell structure of *Chlorella*.

14. List the identifying features of *Zygomycotina*.

15. Draw the internal anatomy of *Usnea* thallus.

16. What is lichen? Classify them.

17. List the control measures of powdery mildew of Rubber.

18. Explain the archegonial cluster in *Funaria*.

19. What are resurrection plants?

20. What is meristele?

21. List any two xerophytic adaptations of *Pinus* needle.

22. What is cleavage polyembryony?

(8 × 2 = 16 Marks)

SECTION – C

III. Answer any **six** of the following not more than 120 words. Each carries **4** marks.

23. Explain the internal anatomy of *Sargassum* thallus.

24. Point out the vegetative features of *Chara*.

25. Describe the zoospore formation in *Oedogonium*.

26. Explain the different types spores produced by *Puccinia*.

27. Explain the structure of apothecium in *Peziza*.

28. Briefly describe the method of preparation of Bordeaux mixture.

29. Explain the internal structure of *Funaria* capsule.

30. With diagrams explain the internal anatomy *Pteris* petiole.

31. Describe the structure of Pinus female cone L. S.

(6 x 4 = 24 Marks)

SECTION – D

IV. Write essay on any **two** of the following, each carry **15** marks.

32. Explain economic importance of fungi.

33. Describe the reproduction in *Riccia*.

34. Explain the formation of cystocarp in Polysiphonia.

35. Discuss the sexual reproduction in *Selaginella*.

(2 x 15 = 30 Marks)
