SAINTS COLLEGE

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R – 3150

Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, September 2023

First Degree Programme under CBCSS

Botany

Complementary Course

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

(2019–2021 Admission)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary

SECTION – A

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

1. What is heterospory?

2. Name the fruit body found in *Peziza*.

3. What are akinetes?

4. Amylum stars are found in ——————

5. Name the causal organism of quick wilt of pepper.

P.T.O.

6. The chief reserve food found in Rhodophyceae is _____

7. What are chlamydospores?

8. Branched filamentous structures formed by the germination of spores in *Funaria* are called _____

9. What are spur shoots?

10. What are soredia?

(10 × 1 = 10 Marks)

SECTION – B

II Answer any **eight** of the following questions; **each** carries **2** marks.

11. What are conceptacles?

12. Comment on the sexual reproductive structures of *Polysiphonia*.

13. What are carpospores?

14. Mention the ecological role of Lichens.

15. What is meant by circinate vernation?

16. List any two xerophytic adaptations in Pinus needle.

17. What are sporangiospores?

18. Comment of the structure of *Pinus* pollen grain.

19. Give an account of the vegetative reproduction in Funaria.

20. How Bordeaux mixture is prepared?

21. Write a short note on stele of Pteris rhizome.

22. What are heterocysts? Mention their functions.

(8 × 2 = 16 Marks)

SECTION – C

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

23. What are nannandria? How they are formed?

24. Explain the structure of female cone of *Pinus.*

25. Discuss the thallus structure of *Polysiphonia.*

26. Briefly explain the structure of *Funaria* sporophyte.

27. Give an account of the morphology of rhizophore in *Selaginella.*

28. Explain the sexual reproduction in *Rhizopus.*

29. Write *a short note on the general* characters of Cyanophyceae.

30. Explain the symptoms, etiology and control measures of powdery mildew of Rubber.

31. Give an account of the economic importance of Fungi.

(6 × 4 = 24 Marks)

SECTION – D

IV Answer any **two** of the following questions; **each** carries **15** marks.

32. Explain the structure and sexual reproduction in *Chara* with the help of labelled diagrams.

33. Describe the thallus structure and reproduction in *Riccia.*

34. Explain the life cycle of *Puccinia* with diagrams.

35. What are lichens? Explain the structure and reproduction in *Usnea* with diagrams.

(2 × 15 = 30 Marks)