(Pages : 3) M – 2381

Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, December 2021

First Degree Programme under CBCSS

Botany

Complementary Course for Zoology, Home Science and Biochemistry

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

(2014–2018 Admission)

Time : 3 Hours Max. Marks : 80

Draw diagrams wherever necessary.

I. Write short notes on the following. All questions are compulsory. Each carries 1 mark.

1. Which are the major types of pigments in chlorophyceae?
2. Write any two distinguishing feature of phaeophyceae.
3. Name the type of fruiting body in *Peziza*.
4. Write any two economic importance of fungi.
5. What are Perichaetial leaves?
6. Why the bryophytes are known as the amphibians of plant kingdom?

P.T.O.

7. What is phylogenetic classification?

8. Define sorus. Give an example.

9. Write any two *Xerophytic* adaptations of *Pinus* needle.

10. Name the causative organism of powdery mildew of rubber.

(10 × 1 = 10 Marks)

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

11. Explain the mode of preparation of Tobacco decoction.

12. Describe briefly the male cone of *Pinus*.

13. Write any two internal features of *Pteris* petiole.

14. What is heterospory? Give an example from pteridophytes.

15. Write notes on the Thallus organisation in *Riccia*.

16. Describe with diagram the teleutospores. of *Puccinia*.

17. Draw a labelled diagram of antheridial cluster in *Funaria*.

18. Distinguish between ascomycotina and basidio mycotina.

19. What are the symptoms of quick wilt of pepper?

20. Write notes on the sexual reproduction in Rhizopus.

21. What are the economic importance of *Nostoc*?

22. Give an account of the vegetative features of *Chara*.

(8 × 2 = 16 Marks)

III. Answer **any six** questions. Answer do not exceed 120 words. Each question carries **4** marks.

23. Explain the symptoms and control measures of brown spot disease of paddy and Tapioca mosaic disease.

24. Describe with diagram the female cone of *Pinus*.

25. Explain the method of reproduction in *Pteris*.

26. Describe with diagram the sporophyte of *Funaria*.

27. Describe the structure and reproduction of *Penicillium*. Draw diagrams.

28. Describe with diagram the thallus of *Chlorella*.

29. Explain the various stages in the life cycle of *Oedogonium*.

30. What are the vegetative and reproductive characters of *Polysiphonia*.

31. Describe with diagram the structure and reproduction of *Nostoc*.

(6 × 4 = 24 Marks)

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

32. Describe with diagram the alternation of generation in *Riccia*.

33. Explain the various stages of life cycle in *Selaginella* draw diagrams.

34. Describe the vegetative and reproductive features of *Sargassum*. Draw diagrams.

35. Describe with diagram the thallus structure and reproduction in *Usnea*.

(2 × 15 = 30 Marks)
