

TB243969P

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY

SEMESTER III - CORE COURSE (BOTANY)

BO3B03B18 - Phycology and Bryology

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. Define isogamy.
2. What are phytoplanktons?
3. What is meant by holdfast?
4. What is a coenobium?
5. Distinguish between tinsel and whiplash flagella.
6. What are synzoospores? In which alga is it found?
7. What is the source of agar-agar?
8. Name a source of restriction endonuclease.
9. Name one aquatic species of bryophytes.
10. Name the type of rhizoids seen in Anthoceros.
11. Which are the three distinct regions of Funaria capsule?
12. Which are the two types of rhizoids seen in Marchantia?



Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Write a note on the habitat diversity of algae.
14. What are the methods of sexual reproduction in algae?
15. Describe the structure of the male sex organ in Chara with suitable diagram.
16. Describe the methods of vegetative and asexual methods of reproduction in Chara.
17. Describe the role of algae as a food source.
18. Describe the role of algae in medicine.
19. Explain the economic importance of bryophytes.
20. Explain the structure of gemmae of Marchantia.
21. Explain the internal structure of thallus of Anthoceros.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Describe the different types of life cycle in algae with illustrations.
23. Bring out the salient features of Chlorophyceae. Give a detailed account on the methods of reproduction in this class.
24. Describe the process of collection, cultivation and preservation of microalgae.
25. Explain the thallus anatomy of Anthoceros. Draw suitable diagrams.