TB243910A

Reg. No :.....

Name :.....

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

2023 ADMISSIONS REGULAR

SEMESTER III - CORE COURSE BOTANY

BO3C03B23 - Phycology and Bryology

Time : 3 Hours **Maximum Marks : 60**

Part A

I. Answer any Ten questions. Each question carries 1 marks **(10x1=10)**

1. Describe different types of phycobilin pigments found in algae?
2. Define heterocyst?
3. What is meant by holdfast?
4. Distinguish between tinsel and whiplash flagella.
5. What are Aplanospores?
6. Define coenobium?
7. Name an alga that can be used as a fertilizer.
8. Give an example of an algae as indicator of water pollution.
9. Which are the major groups of bryophytes?
10. What are pseudoelators?
11. What are the functions of columella?
12. Name the type of rhizoids seen in Anthoceros.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Describe the Diplontic life cycle in algae with schematic diagram.
14. With a labelled diagram, describe the structure of Nostoc.
15. Describe the methods of vegetative and asexual methods of reproduction in Chara.
16. What are the methods of sexual reproduction in algae?
17. Describe the role of algae in medicine.
18. What is eutrophication?Give an account of algal blooms and its harmful effects.
19. Explain the economic importance of bryophytes.
20. Explain the structure of sporophyte of Marchantia with the help of suitable diagrams.
21. Explain the internal structure of thallus of Anthoceros.

Part C

III. Answer any Two questions. Each question carries 10 marks **(2x10=20)**

22. With diagrams, explain the range of thallus structure in algae.
23. Explain the life cycle of a Rhodophycean member that you have studied.
24. Describe the morphology, sexual reproduction and affinities of Vaucheria with Chlorophyceae and Xanthophyceae.
25. Contrast the photosynthetic zones of Riccia and Marchantia with the help of suitable diagrams.