

TB213070V

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022

(2021 Admissions Regular, 2020 Admissions Supplementary/Improvement, 2019 & 2018 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. What is meant by scytonema?
2. What is a cryophyte?
3. What are auxospores?
4. Which alga produces nannandria?
5. What is meant by holdfast?
6. Name one nitrogen fixing alga.
7. What is the source of Kieselguhr?
8. What is meant by diatomaceous earth.
9. Which are the two distinct phases of the life cycle of bryophytes?
10. Name one xerophytic species of Riccia.
11. What are the methods of vegetative reproduction seen in Marchantia?
12. Name the bryophyte having intercalary meristematic zone in its sporophyte.

Part B

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

(6x5=30)

13. Which are the different pigments found in algae?
14. Explain the nature of thallus in Oedogonium.
15. What are the peculiarities of monolocular and plurilocular sporangia?
16. Describe the coenobium in Volvox.
17. What is SCP? Analyze the use of algae as SCP.
18. Describe the role of algae in waste water treatment.
19. Explain the economic importance of bryophytes.
20. Illustrate the capsule of Funaria.
21. With the help of suitable diagrams explain the structure of a mature archegonium of bryophytes.

Part C

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

(2x10=20)

22. Give a detailed account on the classification of algae by Fritsch.
23. Give an account on the thallus structure of Ectocarpus. Describe its life cycle with diagrams.
24. Explain the economic importance of algae.
25. Explain the evolution of gametophyte and sporophyte among bryophytes.