



23127018

QP CODE: 23127018

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, OCTOBER 2023**

**Third Semester**

**CORE COURSE - BO3CRT03 - PHYCOLOGY & BRYOLOGY**

(Common to B.Sc Botany and Biotechnology Model III Double Main, B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management & B.Sc Botany Model II Plant Biotechnology)

2017 Admission Onwards

5AD17135

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Differentiate between isogamy and anisogamy.
2. Explain Phialophore.
3. What is dwarf male?
4. What are nodes and internodes in chara?
5. What is the morphology of male gametes in xanthophyceae?
6. Name two species of algae used in agar agar extraction.
7. Name two algae causing red tide.
8. Name an aquatic bryophyte.
9. What is columella?
10. What are bulbils?
11. Name the theory which support the evolution of funaria sporophyte as the advanced type.
12. Give two economic importance of Bryophytes.

(10×1=10)





### Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Give a brief account of algal classification by Lee(2009).
14. The Blue-green algae are also called Cyanobacteria -why? Discuss its similarities with other algae.
15. Explain different patterns of sexual reproduction in Pinnularia with diagrams.
16. What are the charecteristic features of Rhodophyceae?
17. Describe agricultural importance of algae.
18. Differentiate algae from bryophytes.
19. Briefly describe the various methods of vegetative reproduction inl *Riccia* .
20. Briefly describe the thallus anatomy of Marchantia.
21. Describe the role of bryophytes in ecological succesison.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Write in detail the life cycle of Chladophora.
23. Write a detailed account on the life cycle in Ectocarpus with diagrams.
24. Explain the different types of Algal culture techniques with its advantages and disadvantages.
25. Give an illustrated account of the Evolutionary history and the theories explaining the evolution of Bryophytes.

(2×10=20)

