



21101957

QP CODE: 21101957

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, AUGUST 2021

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

7167F960

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is Haplobiontic lifecycle?
2. What is Hormogonia?
3. What are the major pigments in cladophora?
4. Name an algae which produce amyllum stars during vegetative reproduction.
5. What is Cystocarp?
6. What is diatomaceous earth?
7. What are HABs?
8. Name an aquatic bryophyte.
9. What are rhizoids?
10. What is peristome?
11. Name the theory which support the evolution of funaria sporophyte as the advanced type.
12. Which bryophyte is used as a fuel?

(10×1=10)





Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Give a detailed account of algal pigments and their significance in algal classification.
14. Describe auxospore formation in diatoms and add a note on its significance.
15. Differentiate unilocular sporangia from plurilocular sporangia.
16. Describe the structure of sex organs in Sargassum.
17. Algae have become significant organisms for biological purification of wastewater. Justify
18. Differentiate isomorphic and an isomorphic alternation of generation.
19. Write down the life cycle of Marchantia.
20. Describe the evolution of sporophyte by progressive sterilization of sporogenous tissue.
21. Briefly describe the role of bryophytes in horticulture.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Describe the life cycle of Oedogonium.
23. Describe the life cycle in vaucheria.
24. Write an essay on isolation, cultivation and preservation of micro and macro algae.
25. Briefly describe the life cycle of Anthoceros.

(2×10=20)

