



21100482

**QP CODE: 21100482**

**Reg No** : .....

**Name** : .....

**B.Sc DEGREE (CBCS) EXAMINATION, MARCH 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

0763D546

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. Name the reserve food materials found in Phaeophyceae.
2. What are stipulodes?
3. Give the systematic position of Vaucheria.
4. Differentiate hypotheca and epitheca.
5. Name an algae which produce non motile male gamete.
6. Name two algae from which alginate can be obtained commercially.
7. Write two examples for neurotoxins produced by algae.
8. What are the functions of Columella?
9. What are slime pores?
10. What is theca?
11. Name the theory which support the evolution of funaria sporophyte as the advanced type.
12. What is peat?

(10×1=10)

**Part B**





*Answer any **six** questions.  
Each question carries **5** marks.*

13. Briefly explain with characters the classification of Algae as proposed by Fritch.
14. Explain the ecological and economic role of blue green algae.
15. Explain asexual reproduction in Volvox with necessary illustrations.
16. Describe the thallus organisation in Sargassum.
17. Write notes on algal blooms.
18. Bryophytes are known as 'amphibians of plant kingdom'. Why?
19. Mention the different methods of vegetative reproduction in Marchantia.
20. Describe the structure of Funaria sporophyte.
21. Describe the role of bryophytes in ecological succession.

(6×5=30)

### **Part C**

*Answer any **two** questions.  
Each question carries **10** marks.*

22. Give an account of the sex organs and sexual reproduction of Oedogonium and point out the special features in its life history.
23. Describe the life cycle in cladophora.
24. Write an essay on economic importance of algae.
25. Describe the various methods of reproduction and sexual life cycle of Riccia.

(2×10=20)

