



QP CODE: 18103342



Reg No :

Name :

B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2018

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

1D7BE9A6

Maximum Marks: 60

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **1** mark.

1. Define siphonous thallus.
2. Name an algae which helps in Nitrogen fixation.
3. Describe Gonidia in volvox.
4. What is dwarf male ?
5. Which are the two groups under diatom classification ?
6. Name two nitrogen fixing algae
7. Explain Carrageenan
8. Name an aquatic species of Riccia.
9. What is protonema?
10. Define cryptogamae.
11. Name the theory which support the evolution of funaria sporophyte as the advanced type
12. Name a bryophyte used in horticulture.

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Describe the algal classification proposed by F.E Fritsch.
14. Write down the life cycle of Vaucheria





15. Write down the lifecycle in Ectocarpus with diagrams
16. What is the evolutionary significance of Rhodophyceae
17. Algal blooms can present problems for ecosystems and human society. Explain
18. Give a brief account on classification of bryophytes by Goffinet et al (2008)
19. How growth in length of thallus takes place in *Riccia*.
20. What are the post fertilization changes that happen in Marchantia?
21. Briefly describe the economic importance of bryophytes.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Illustrate the sexual reproduction in Chara with diagrams
23. Give an account of the sex organs and sexual reproduction of Sargassum and point out the special features in its life history
24. Explain the different types of Algal culture techniques with its advantages and disadvantages?
25. Give an account of the sex organs and sexual reproduction and the sporophyte of Anthoceros

(2×10=20)

