

QP CODE: 19102042



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Reg No : .....

Name : .....

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**B.Sc. DEGREE (CBCS) EXAMINATION, OCTOBER 2019**

**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

52E70182

Maximum Marks: 60

Time: 3 Hours

**Part A**

*Answer any ten questions.*

*Each question carries 1 mark.*

1. Mention any one difference between class Xanthophyceae and Phaeophyceae
2. What are trichomes?
3. What do you mean by protandrous condition?
4. What is striae?
5. Which class of algae produces algin
6. What is flotation in algal culture?
7. Explain Carrageenan
8. Describe the thallus morphology in Riccia
9. Define ventral canal cell.
10. Define "cover cells".
11. Name the theory which support the evolution of funaria sporophyte as the advanced type
12. Who is known as father of Bryology?

(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. Describe the salient feature of Chlorophyceae. Mention its similarities with higher plants.
15. Write down the life cycle of Vaucheria
16. Explain the Carposporophyte in Polysiphonia with diagrams
17. Algal blooms can present problems for ecosystems and human society. Explain
18. Enumerate the features which support the statement " Bryophytes are amphibians of Plant Kingdom"
19. Describe the structure of *Riccia* archegonium .
20. Explain the Sporophyte of Anthoceros
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 sexual reproduction in oedogonium nannandrous species
23. Describe the sexual reproduction in Sargassum
24. Write down the different economic importance of Algae
25. Compare the gametophyte of *Riccia*, *Anthoceros* and *Funaria*

(2×10=20)