



QP CODE: 22100542



22100542

Reg No :

Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, APRIL 2022

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

487991AE

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Define Haplontic Life cycle.
2. Name the reserve food materials found in Phaeophyceae and Xanthophyceae.
3. What is a Gongrosira stage?
4. What are cryptoblasts?
5. What are gonimoblast filaments?
6. Name two species of algae used in agar agar extraction.
7. Name one parasitic algae.
8. What are tubers?
9. What is antherediophore?
10. What is annulus?
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. Mention any four differences between class Xanthophyceae and Phaeophyceae.
14. Describe the structure of sex organs in vaucheria.
15. Enumerate the economic importance of diatoms.
16. What are the differences between Plurilocular and Unilocular sporangia?
17. Write notes on algal blooms.
18. Differentiate between algae and bryophytes.
19. Briefly describe the internal tissue differentiation in *Riccia* thallus with the help of a diagram.
20. Give an account of the sexual reproduction of Anthoceros.
21. Describe the ecological importance of bryophytes.

(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. Write in detail the life cycle of Chladophora.
24. Write an essay on economic importance of algae.
25. Compare the sporophyte of *Riccia*, *Anthoceros* and *Funaria*.

(2×10=20)

