



23104217

QP CODE: 23104217

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, JANUARY 2023**

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

2873E53E

Time: 3 Hours

Max. Marks : 60

core

Part A

*Answer any **ten** questions.*

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

1. Who is the father of Indian Phycology?
2. Name an algae used as a biofertiliser in rice fields.
3. Name a filamentous multinucleate chlorophycean algae.
4. What is auxospore?
5. How can you differentiate haploid and diploid Polysiphonia?
6. Name two algae from which carragheen is extracted.
7. Name two algae causing red tide.
8. Differentiate pegged rhizoids and tuberculate rhizoids.
9. What are pseudo-elators?
10. What is operculum?





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 comparative account of Haplobiontic and Haplo- diplobiontic life cycle.
14. Write a short note on Maccrandrus thallus of Oedogonium.
15. Describe the asexual reproduction of Vaucheria with diagrams.
16. Describe asexual reproduction in Ectocarpus.
17. Explain the role of algae in pollution studies.
18. Differentiate isomorphic and an isomorphic alternation of generation.
19. How fertilization tales pace in *Riccia*.
20. Give a notes on sexual lifecycle of Marchantia.
21. Briefly describe the economic importance of bryophytes.

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Give an illustrated account of the sexual life cycle of Volvox.
23. Describe the life cycle in Chara.
24. Write down the different economic importance of Algae.
25. Compare the gametophyte of *Riccia*, *Anthoceros* and *Funaria*.

(2×10=20)

