QP CODE: 24026915

24026915

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

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

10658796

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Mention any one difference between class Xanthophyceae and Phaeophyceae.
2. What are the dominant pigments found in Rhodophycea?
3. What are stipulodes?
4. What is plurilocular sporangia?
5. Name an algae with triphasic life cycle.
6. What is diatomaceous earth?
7. What is red tide?
8. What are scales?
9. What is a sporophyte?
10. What is perigynium?
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. With the help of suitable diagrams ,explain the range of structures of two Chlorophycean members.
15. Describe the asexual reproduction of Vaucheria with diagrams.
16. Give a notes on asexual lifecycle of Pinnularia.
17. Describe agricultural importance of algae.
18. Why Bryophytes are called Amphibians of plant Kingdom?
19. How fertilization tales pace in *Riccia?*
20. Draw a neat labelled diagram of Funaria Capsule.
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 account of the sex organs and sexual reproduction of Oedogonium and point out the special features in its life history.
23. Describe the sexual reproduction in Sargassum.
24. Write an essay on isolation, cultivation and preservation of micro and macro algae.
25. Give an illustrated account of the Evolutionary history and the theories explaining the evolution of Bryophytes.

(2×10=20)