Reg. No. :	
Name :	

Third Semester B.Sc. Degree (CBCSS - OBE - Regular/Supplementary/ Improvement) Examination, November 2022 (2019 Admission Onwards)

CORE COURSE IN BOTANY/PLANT SCIENCE 3B03BOT/PLS: Plant Diversity - I - Algae and Bryophytes

Time: 3 Hours

Max. Marks: 40

Instruction: Draw diagrams wherever specified.

PART - A (Objective Type Questions)

Answer all.

1. Floridean starch is the reserve food in

 $(4 \times 1 = 4)$

- - a) Phaeophyceae

c) Bacillariophyceae

- b) Cyanophyceae d) Rhodophyceae
- 2. Chloroplast in cup-shaped in
 - a) Chlamydomonas
- b) Ulothrix d) Chara
- c) Sargassum 3. Pseudo-elaters are seen in
 - a) Riccia c) Funaria
- b) Anthoceros d) Lunularia
- 4. Function of peristome is
 - a) Spore dispersal
 - c) Conduction
- b) Capsule dehiscence
 - d) Assimilation

PART - B (Short Essay Questions)

Answer any eight.

 $(8 \times 2 = 16)$

- What is coenobium? Give an example.
- 6. Describe the tetrasporophyte of Polysiphonia.
- Explain the structure of cap cell in Oedogonium.

P.T.O.

K22U 3610

- Describe the structure of Pinnularia.
- Comment on algae as bioremediation agents.
- Give an account of edible algae.
- 11. Why bryophytes are called amphibians of plant kingdom?
- 12. Give an account on affinities of bryophytes with algae. 13. What are the 3 major classes of bryophytes?
- 14. Describe internal structure of Marchantia thallus.
- 15. Explain various methods of collection of bryophytes.
- Comment on the staining of reproductive structures in bryophytes.

PART - C (Essay Questions)

Answer any four.

 $(4 \times 3 = 12)$

- 17. Describe the algal classification by Lee.
- 18. Explain the reproduction in *Ulothrix*.
- 19. What are the staining techniques used in phycological study?
- 20. Describe the method of preservation of seaweeds.
- 21. Describe the antheridial branch of Funaria.
- 22. Write notes on ecological significance of bryophytes.

(Long Essay Questions)

PART - D

Answer any one.

(8×1=8)

- 23. Give an account of reproduction in Chara. 24. Explain the reproduction in Sargassum.
- 25. Write notes on reproduction in Anthoceros.