Reg.No

Name:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/Improvement/Supplementary)

BOTANY

GBOT3B03T: PHYCOLOGY, BRYOLOGY & PTERIDOLOGY & GYMNOSPERMS Time: 2 Hours Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 Marks)

- 1. What are planktophytes? Give an example.
- 2. Comment on the different types of flagella present in algae.
- 3. Name two examples for symbiotic algae.
- 4. Write a short note on the components of cell walls in Cyanophyceae and Rhodophyceae.
- 5. Write down the salient features of Hornworts.
- 6. What are peristomialteeths?
- 7. Distinguish between a Microphyll and megaphyll.
- 8. Comment on different types of sporangia based its development.
- 9. What are siphonosteles? Give an example.
- 10. What is Heterospory?
- 11. What are pollen chambers?
- 12. What are called "shower of sulphur"?

SECTION B: Answer the following questions. Each carries *five* marks. (Ceiling 30 Marks)

- 13. With the help of suitable diagrams, explain the structure of sex organs in Riccia.
- 14. Write a short account on the economic importance of bryophytes.
- 15. Comment on the morphological nature of the synangium in Psilotum.
- 16. Comment on the asexual reproduction of Voucheria.
- 17. Explain the structure of ovule in Cycas with the help of suitable diagrams.
- 18. Briefly comment on the sexual reproduction of Pinus.
- 19. Comment on the morphological nature of envelope of ovules in *Gnetum*.

SECTION C: Answer any one question. Each carries ten marks.

- 20. Write an essay on the alternation of generations in algae and the different types of life cycles.
- 21. Explain the stelar evolution and origin of pith in pteridophytes.