D3BBT2301	Reg. No
	Name:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(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 brachyblasts?
- 2. Comment on elaters.
- 3. List down the distinguishing features of Bryopsida.
- 4. What is known as peat?
- 5. Comment on the pigments of Chlorophyceae.
- 6. What are akinetes?
- 7. Enlist the salient features of Cycadales.
- 8. Write a note on pseudoparenchymatous thallus structure.
- 9. Write down the salient features of Gnetales.
- 10. What are homosporus ferns? Give an example.
- 11. What are protosteles? Give an example.
- 12. Define Apogamy.

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

- 13. Describe the internal structure of Cycas rachis with the help of suitable diagrams.
- 14. With the help of suitable diagrams, explain the structure of capsule in Funaria.
- 15. Explain the structure of petiole in Pteris with the help of suitable diagrams.
- 16. Write a short essay on the seed habit of pteridophytes.
- 17. Describe the structure of frustule in Diatoms.
- 18. Write down the structure of strobilus in Selaginella with the help of suitable diagrams.
- 19. Give an account on the salient features of Anthocerotopsida.

SECTION C: Answer any *one* question. The question carries *ten* marks.

- 20. Discuss the ultrastructure of flagella algae with suitable diagrams. Comment on its types, number and position in different groups of algae.
- 21. 'Gymnosperms are considered to bridge the gap between Angiosperms and Pteridophytes'. Elucidate.

 $(1 \times 10 = 10 \text{ Marks})$