

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2023

BBT3B03 – Phycology, Bryology & Pteridology

(2022 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

1. Give a brief account on trichoblast.
2. What is coenosorus? Give an example.
3. Write notes on Apospory in pteridophytes.
4. Give a brief account on heterocyst and its functions. How are they formed?
5. Compare the thallus structure in *Chlorella* and *Chara*.
6. Critically evaluate the sporophyte of *Riccia*.
7. Give a brief account on medicinal uses of Bryophytes.
8. Critically evaluate the auxospore formation in *Pinnularia*.
9. Describe the internal thallus structure of *Anthoceros*
10. Critically evaluate the perispore in *Equisetum*.
11. Describe the thallus morphology in *Sargassum*.
12. Give a brief account on Rhizophore.

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

13. Describe the sex organs in *Chara*.
14. Give a brief account on classification of pteridophytes proposed by Smith et al., 2008.
15. Describe the morphological and anatomical features of *Riccia*.
16. Give a brief account on the life cycle in *Vaucheria*
17. Briefly explain the general characteristics of bryophytes.
18. Explain the reproduction in *Psilotum*
19. Describe the stelar evolution in pteridophytes

SECTION C

(Answer any one question, each question carries 10 marks. 1 x 10 = 10 Marks)

20. Critically analyze and compare the sporophyte in *Anthoceros* and *Funaria*.
21. Give a detailed account of the life cycle in *Selaginella* with special reference to heterospory and seed habit.