

April 2025
B.A./B.Sc.
Second Semester
MAJOR – 2
BOTANY
Course Code: BOM 2.11
(Bryophytes & Pteridophytes)

Total Mark: 50
Time: 2 hours

Pass Mark: 20

I. Answer three questions, taking one from each unit.

UNIT-I

1. Mention any two early land plants. Give an account of the external morphology and reproductive structures of *Rhynia*. 12
2. Discuss the general characteristics of bryophytes. 12

UNIT-II

3. Give an account on the range of thallus organization in bryophytes. 12
4. With the help of suitable diagrams, describe the external features of the thallus and the structure of sporophyte of *Anthoceros*. 12

UNIT-III

5. Give an account of Reimer's classification of pteridophytes up to the family level. 12
6. Give the systematic position of *Equisetum*. Describe the anatomy of *Equisetum* with the help of neatly labelled diagrams. 12

II. Answer any two of the following questions.

4. Write a note on adaptations to land habit. 7
5. Write a note on the ecological importance of bryophytes. 7
6. Discuss heterospory and name the genera of pteridophytes which exhibit heterospory. 7