

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc.(PBPBT) - END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - II

20UPBCT2004 - Bryophytes and Pteridophytes

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. List the salient characteristic features of bryophytes.
2. "Pteridophytes were the simplest vascular plants". Discuss
3. Give suitable examples and classify Apogamy and Apospory in pteridophytes.
4. Describe the anatomical features of rhizome of *Marsilea*.
5. With the help of labelled diagrams only describe life cycle of *Polytrichum*.
6. Prepare short notes on economic importance of pteridophytes.
7. Explain homosporous and heterosporous.
8. With the help of suitable diagrams determine the external morphology *Dicranopteris*

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Why bryophytes are called the amphibians of plant kingdom. Give an outline of classification of bryophytes according to Reimer.
10. Give an illustrated account of the development of sporophyte of *Marchantia* and compare it with that of *Polytrichum*.
11. Justify alternation of generation with particular reference to pteridophytes.
12. What is stele? Classify the stellar organisation found in pteridophytes.
13. Give an account of different types of gametophytes of *Lycopodium* and justify on their association with endophytic fungi.
