

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. END SEMESTER EXAMINATIONS NOVEMBER-2022

SEMESTER - II

20UPBCT2004 - Bryophytes and Pteridophytes

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. Bryophytes are known as Amphibians of Plant Kingdom. Justify.
2. List the general characters of Pteridophytes.
3. Explain the anatomical structures of *Lycopodium*.
4. Write in detail about male gametophyte of *Marchantia* with neat diagram.
5. Discuss the stellar development in Pteridophytes.
6. Differentiate Bryophytes and Pteridophytes.
7. Explain the gemmae cup development with diagrams.
8. Explain the lifecycle of Bryophytes.

Section B

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

9. Discuss the classification of Bryophytes proposed by Reimer, 1954.
10. Elucidate the morphology, anatomy and reproductive structures of *Polytrichum*.
11. Explain the following:
(i) Apogamy (ii) Apospory (iii) Homospory (iv) Heterospory.
12. List any ten economic importance of Bryophytes and Pteridophytes.
13. Explain the reproduction in *Marsilea*.
