

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.

M.Sc. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - I

20PPBCT1002 - Bryophytes, Pteridophytes, Gymnosperms and Paleobotany

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Illustrate and explain the Sporophyte of Funaria.
2. Explain the gametophyte of Lunularia.
3. Illustrate and explain the different types of Protostele in Ferns.
4. Assess the biological significance of heterospory.
5. Construct the habit of Psilotum.
6. Draw and explain the anatomy of Selaginella Stem.
7. Justify the characteristic features of Gymnospermae.
8. Ascertain the contributions of Sir Birbal Sahni to Paleobotany.

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Differentiate between Siphonostele and Solenostele with illustrations.
10. Evaluate the anatomical features of Adiantum-rhizome, root and Pinna.
11. Distinguish between the male and female gametophyte of Ephedra.
12. Infer the Gondwana Flora of India.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Deduce the life cycle of the genus - Anthoceros.
