

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.(PBPBT) - END SEMESTER EXAMINATIONS APRIL - 2023

SEMESTER - III

20PPBCT2003 - Plant Anatomy, Embryology and Palynology

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Quote Histogen concept.
2. Illustrate the different types of meristems based on their position.
3. Explain the functions of vascular cambium.
4. Compare sap wood with Heartwood.
5. Describe the methods to overcome incompatibility.
6. Relate leaf trace and leaf gap.
7. Interpret the different steps involved in microsporogenesis.
8. Assess the pollen architecture and note on melittopalynology.

Section C

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

9. Describe the Tunica-Corpus concept in shoot apex.
10. Classify different types of xylem tissues and their importance.
11. Differentiate the types of nodes with diagram.
12. Evaluate the practical applications and classifications of polyembryony.

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

13. Ascertain the methods of Pollination in detail.
