

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 2025

SEMESTER - II

**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. Explain the Tunica corpus theory of Shoot Meristem.
2. Write short notes on Heart wood and Sap wood.
3. Briefly describe the types of Nodal Anatomy.
4. Explain the double fertilization and triple fusion phenomena.
5. Comment on Melittopalynology and Palynological calendars.
6. Explain the phloem elements with neat diagrams.
7. Describe the genetic basis of self-incompatibility.
8. Explain the pollen-pistil interaction.

### Section C

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

9. Write an essay on classification of meristem.
10. Describe the structure, types and activity of Vascular cambium.
11. Illustrate the various types of Stele studied by you.
12. Explain the different methods of pollination with examples.

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

13. What is an endosperm ? Explain its types and significance.

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