

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 - 2024

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. Define Apical cell theory.
2. State the features of Tunica corpus theory and Histogen theory.
3. Predict the xylem differentiation and xylary elements.
4. Phloem: Primary and secondary elements - explain.
5. Describe the characteristic features of Leaf traces and leaf gaps.
6. Write short notes on Microsporogenesis.
7. Make a neat sketch on Megasporogenesis – Structure.
8. Infer brief notes on process of fertilization in Angiosperms.

### Section C

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

9. Illustrate the Meristems and Differentiation.
10. Write a notes on different types of stele.
11. Organize brief notes on Branch traces and branch gaps.
12. Evaluate the Embryo sac – Structure and types.

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

13. Justify in detail about Pollen transfer and Pollen – pistil interaction.

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