

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. - END SEMESTER EXAMINATIONS APRIL - 2022  
SEMESTER - II  
20PPBCT2003 - Plant Anatomy, Embryology and Palynology

Total Duration : 3 Hrs.

Total Marks : 60

**Section A**

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

1. Explain Tunica corpus theory.
2. Write about Structure and Functions of Vascular cambium.
3. Give a suitable notes and diagram of Leaf traces and leaf gaps.
4. Write about Megasporogenesis in plants.
5. Write a short notes on Barriers to fertilization.
6. Give detail account on Pollen – pistil interaction.
7. Explain Melittopalynology.
8. Different between heart wood and sap wood.

**Section B**

**Part A**

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

9. Write an essay on Classification of meristems.
10. Write about Phloem Primary and secondary elements and give a suitable diagrams.
11. Give a detail account of Types of endosperm and Polyembryony.
12. Explain Methods of pollination and its applications.

**Part B**

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

13. Explain about Organization and shoot theories.

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