

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.

B.Sc.PBPBT - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - III

**20UPBCT3006- Anatomy of Angiosperms and Embryology**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

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

1. State the differences between the lenticels and stomata.
2. Explain the three types of meristematic tissues.
3. Anomalous secondary growth is observed in some monocots in which growth of the secondary cambium is observed in the hypodermis region.
4. Explain the abnormal secondary growth in Boerhaavia stem.
5. Write short notes on (any five)
  - a. Apical Meristem
  - b. Epidermis
  - c. Embryo-endosperm relationship
  - d. Vascular cambium
  - e. Role of tapetum
  - f. Double fertilization
6. Write short notes on
  - a. Ovule.
  - b. Nucellus.
  - c. Integuments.
  - d. Hemi-Anatropous Ovule.
  - e. Amphitropous ovule.
7. Enlist the types of Ovule.
8. Draw different stages of dicot embryo development in an angiosperm.

### Section C

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Describe the Dicot Stem with the help of labelled diagrams.
10. Describe the internal structure of a dorsiventral leaf with the help of labelled diagrams.
11. Explain linear tetrad in microsporogenesis.
12. Describe the process of megasporogenesis.
13. What is endosperm? Discuss different types of endosperm formation with one example of each. Mention the functions of endosperm.

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