

SECTION - C (2 × 20 = 40)*Answer ALL questions.**Each answer should not exceed 1,200 words.**All questions carry equal marks.*

15. (a) Describe the ultrastructure of plant cell wall.

(OR)

- (b) Write an essay on polyembryony.

16. (a) Explain the organization of seed certification agency in Tamil Nadu.

(OR)

- (b) Describe ABC model of flower development.

Register Number :

Name of the Candidate :

2 0 0 8**M.Sc. DEGREE EXAMINATION, 2010**

(BOTANY)

(FIRST YEAR)

**140. ANGIOSPERM, ANATOMY,
EMBRYOLOGY, TISSUE CULTURE,
DEVELOPMENTAL BOTANY AND
APPLIED BOTANY**

May]

[Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 × 3 = 24)*Answer ALL questions.**Each answer should not exceed FIFTY words.**All questions carry equal marks.*

1. Middle lamella.
2. Wound healing.
3. Antipodals.

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4. Endosperm haustoria.
5. Heat sterilization.
6. Totipotency.
7. Extra cellular matrix.
8. Seed borne pathogen.

SECTION - B (6 × 6 = 36)

Answer ALL questions.

Each answer should not exceed 300 words.

All questions carry equal marks.

9. (a) Explain the structure and significance of transfer cell.

(OR)

- (b) Describe the types and functions of cork cambium.

10. (a) Trace the development of male gametophyte.

(OR)

- (b) Give an account of helobial endosperm.

11. (a) Briefly discuss the significance of haploids.

(OR)

- (b) How virus free plants are obtained using tissue culture ?

12. (a) Describe the nucleoplasmic interaction.

(OR)

- (b) Give an account of food storage methods.

13. (a) Give an account of morphology of inferior ovary.

(OR)

- (b) Explain how local people store the seeds.
14. (a) Describe the types of nodal anatomy.

(OR)

- (b) Describe the ultrastructure of mature gametophyte.

Turn Over