

OCTOBER 2012

P/ID 40225/PBTE

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 50 words.

Write short notes on:

1. Endothecium.
2. Obturator.
3. Heterofertilization.
4. Polyembryony.
5. MS medium.
6. Paleopalynology.
7. Rhytidome.
8. Tyloses.

9. Digestive glands.
10. Guard cells.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Explain the functions of pollankitt.
Or
(b) Give an account of filiform apparatus.
12. (a) Explain the post – fertilization changes.
Or
(b) Discuss the Laws of Embryogeny.
13. (a) Explain the production of virus free plant by tissue culture.
Or
(b) Explain the recent advances in palynological studies.

14. (a) How does anomalous secondary thickening take place in *Dracaena*?

Or

- (b) Give an account of xylary elements.

15. (a) Comment on Kranz anatomy.

Or

- (b) Explain the structure of stoma.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Give a detailed account on methods of pollen storage. Add a note on its significance.

Or

- (b) Explain in detail, the nutrition of embryo sac.

17. (a) Discuss in detail, double fertilization.

Or

- (b) Give a detailed account on Apomixis.

18. (a) Explain in detail, the methods of sterilization in tissue culture. Add a note on the preparation of culture medium.

Or

- (b) Give a detailed account on nuclear cytoplasmic interaction.

19. (a) Discuss in detail, the theories of shoot apex.

Or

- (b) Discuss the structure of various elements of phloem.

20. (a) Give a detailed account on secretory tissue.

Or

- (b) Give an account on nodal anatomy.
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