

MAY 2016

P/ID 40225/PBTE

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions, each in 50 words.

Write short notes on:

1. Amoeboid tapetum
2. Antipodals
3. Heterofertilization
4. Helobial Endosperm
5. Totipotency
6. Morphogenesis
7. Pollen allergy
8. Polyderm
9. Sap wood
10. Glandular tissue

PART B — (5 × 6 = 30 marks)

Answer ALL questions, each in 250 words.

11. (a) Describe the structure of a typical dicot flower.

Or

- (b) Explain the morphology and cytology of Tapetum.

12. (a) Write an account on Synergids.

Or

- (b) Explain the different types of ovules.

13. (a) Write an account on Apomixis.

Or

- (b) Explain the Different Types of Endosperm.

14. (a) Explain ovary and ovule culture.

Or

- (b) Write an account on Pollen Analysis.

15. (a) Write short note on Rhytidome.

Or

(b) Write an account on Lacticiferous tissue.

PART C — (5 × 10 = 50 marks)

Answer ALL questions, each in 500 words.

16. (a) Describe the process of micro gametogenesis.

Or

(b) Write a detailed account on pollen germination and fertilization.

17. (a) Describe the structure of egg with the help of labeled diagram.

Or

(b) Describe the post fertilization changes.

18. (a) Describe the classification of embryos and its development.

Or

(b) Write an essay on sterilization techniques.

19. (a) Write short notes on (i) Anther culture and (ii) Endosperm culture.

Or

- (b) Write short notes on (i) Palynological calenders and (ii) Pollen loads

20. (a) Write short notes on (i) Growth rings and (ii) Vessels.

Or

- (b) Write an essay on xylem.
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