



Date: 12-04-2019
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART-A

Answer the following, each within 50 words.

(10 x 2 = 20 marks

1. What is sporopollenin?
2. Draw and name the parts of a pollen grain.
3. Mention the function of synergids.
4. Write notes on archesporial cell
5. What are chasmogamous flowers?
6. What are callose plugs?
7. What is crucifer type of dicot embryo?
8. Mention the role of a suspensor.
9. Define adventive polyembryony.
10. What are the parts of a fruit?

PART-B

Answer the following, each within 500 words. Draw diagrams and flow charts wherever necessary.

(5 x 7 = 35 marks)

11a. Briefly explain NPC system of classification of pollengrains.

(or)

b. What is palynology? Give its applications.

12a. Briefly describe the types of ovules.

(or)

b. Illustrate the haustorial behavior and brief on the nutrition of aembryosac.

13a. What are the floral mechanism favoring cross pollination?

(or)

b. What is double fertilization? List out the post fertilization changes.

14a. Discuss the types of endosperm.

(or)

b. Give an account on the cytology and functions of the endosperm.

15a. How is parthenocarpy induced? Mention its applications.

(or)

b. What is apomixes? Give its significance.

PART-C

Answer any three of the following, each within 1200 words. Draw diagrams and flow charts wherever necessary.

(3 x 15 = 45 marks)

- 16 .Describe the development and structure of a mature anther.
17. Explain *Polygonum*, and *Allium* types of embryosac development.
18. Describe the role of various agents that brings out pollination.
- 19.Trace the development of a monocot embryo.
20. Write an essay onpolyembryony.

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