

Time : 2 ½ hours

Marks :60

- N.B.:**
- 1. All questions are compulsory.**
  - 2. Figures to the right indicate full marks.**
  - 3. Draw neat and labeled diagrams wherever necessary.**

- Q.1. Define meristem. Explain the Histogen theory. 12  
OR  
Q.1. Describe the floral development in *Antirrhinum*. 12
- Q.2. Describe in detail any three secretory tissues. 12  
OR  
Q.2. Give the distribution of axial parenchyma. 12.
- Q3. What is apomixis? Give its significance. 12  
OR  
Q. 3. Describe self-incompatibility. Explain the methods to overcome it. 12
- Q.4. Describe the major constituents of pollen grain with reference to Carbohydrates and amino acids. 12  
OR  
Q.4. Describe the special relationships of pollen grain in pollen tetrads. 12
- Q.5. Write short notes on ANY THREE of the following. 12
- Whorled type of phyllotaxy.
  - Structure of rays.
  - Angiosperm wood.
  - Significance of Syngamy and triple fusion
  - Dynamics of fruit growth
  - Pollen as health food

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