



**PARISHRAM PUBLICATIONS
PUNE**

Name of Topic : Sexual Reproduction in Flowering Plant

Subject : Biology

Class : XII

Time : 1 : 00 Hr.

Marks : 25

Section – A (1 Mark Each)

(5 Marks)

- Q. 1. Name the parts of the flower which the tassels of corn cob represent.
- Q. 2. Draw a diagram of a mature microspore of an angiosperm. Label its cellular components only.
- Q. 3. What is pollen-pistil interaction and how is it mediated?
- Q. 4. Name the type of flower which favours cross-pollination.
- Q. 5. Mention the function of coleorhiza.

Section – B (2 Marks Each)

(12 Marks)

- Q. 6. A pollen grain in angiosperm at the time of dehiscence from an anther could be 2-celled or 3-celled. Explain, how are the cells placed within the pollen grain when shed at a 2-celled stage.
- Q. 7. Name all the haploid cells present in an unfertilised mature embryo sac of a flowering plant. Write the total number of cells in it.

OR

Suggest two advantages to a farmer using apomictic seeds of hybrid varieties.

Section – C (3 Marks Each)

(6 Marks)

- Q. 10. Draw a labelled diagram of a section of an enlarged view of microsporangium of an angiosperm.
- Q. 11. Flowering plants have developed many devices to discourage self-pollination and to encourage cross-pollination. Explain three such devices.

OR

- Q. 12. State what is apomixis. Comment on its significance. How can it be commercially used.
- Q. 13. Describe endosperm development in angiosperm.

Section – D (5 Marks Each)

(5 Marks)

- Q. 12. Draw the longitudinal section of a flower showing growth of pollen tube upto the embryo sac. Label the following parts.
(i) Stigma (ii) Pollen tube (iii) Integument
(iv) Chalazal end (v) Nucellus (vi) Synergids