

Chapter – 1 | Sexual Reproduction in Flowering Plants

QUIZ
PART-05

1. Continued self-pollination may result in —

- A. Inbreeding depression
- B. Polyembryony
- C. Fruit ripening
- D. Seed dispersal (A)

Explanation : Continued self-pollination can cause inbreeding depression.

2. Which is an outbreeding device mentioned in the PPT?

- A. Same position of anther and stigma
- B. Self-incompatibility
- C. Constant self-pollination
- D. Absence of pollen tube (B)

Explanation : Self-incompatibility prevents self-pollination and encourages cross-pollination.

3. In papaya, male and female flowers are present on —

- A. The same flower
- B. The same anther
- C. Different plants
- D. The same ovule (C)

Explanation : Papaya shows dioecy, where male and female flowers occur on different plants.

4. Pollen-pistil interaction involves the ability of the pistil to recognize —

- A. Compatible pollen
- B. Seed coat
- C. Fruit wall
- D. Cotyledons (A)

Explanation : The pistil can accept or reject pollen based on compatibility.

5. Compatible pollen germinates on the stigma and produces a —

- A. Seed coat
- B. Pollen tube
- C. Fruit wall
- D. Cotyledon (B)

Explanation : Compatible pollen forms a pollen tube through a germ pore.

6. The filiform apparatus helps in —

- A. Seed dormancy
- B. Entry of pollen tube into synergid
- C. Formation of fruit wall
- D. Dehiscence of anther (B)

Explanation : Filiform apparatus guides the pollen tube into the synergid.

7. Emasculation means removal of —

- A. Ovary
- B. Stigma
- C. Anthers
- D. Sepals (C)

Explanation : Emasculation is removal of anthers before dehiscence.

8. Bagging is done to protect the stigma from —

- A. Desired pollen
- B. Unwanted pollen
- C. Ovules
- D. Endosperm (B)

Explanation : Bagging prevents unwanted pollen from reaching the stigma.

9. Fusion of one male gamete with the egg cell is called —

- A. Triple fusion
- B. Syngamy
- C. Megasporogenesis
- D. Apomixis (B)

Explanation : Syngamy forms the diploid zygote.

10. Fusion of three haploid nuclei is called —

- A. Triple fusion
- B. Autogamy
- C. Emasculation
- D. Dormancy (A)

Explanation : The second male gamete fuses with two polar nuclei, forming the primary endosperm nucleus.