



Sexual Reproduction in Plants

A. Choose the Correct Answer:

1. What is sexual reproduction in plants?

- A) The process of producing seeds without flowers
- B) The formation of seeds through the fusion of male and female reproductive cells
- C) The reproduction of plants through roots and stems only
- D) The formation of new plants from leaves alone

2. Which part of the flower produces pollen?

- A) Stigma
- B) Ovary
- C) Petal
- D) Anther

3. What is the female reproductive part of a flower called?

- A) Stamen
- B) Pistil
- C) Sepal
- D) Petal

B. Fill in the Blanks:

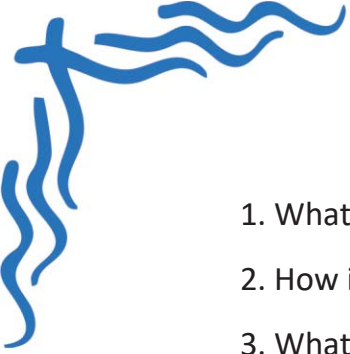
1. Sexual reproduction in plants occurs through the fusion of _____ and _____ cells.
2. The _____ produces pollen grains, which contain male reproductive cells.
3. The ovary of the flower develops into a _____ after fertilization.

C. Case Study:

Riya conducted an experiment in her school garden.

- She observed that flowers have both male and female reproductive parts.
- She noticed that the stamen produces pollen, which is transferred to the stigma of the pistil during pollination.
- After pollination, fertilization takes place, forming seeds.
- Riya also learned that the ovary of the flower turns into a fruit that contains seeds.

Case Study Questions:



1. What are the male and female reproductive parts of a flower?
2. How is pollen transferred to the stigma during pollination?
3. What happens after fertilization in plants?
4. How does the ovary transform after fertilization?

D. Short Answer Questions:

1. What is sexual reproduction in plants?
2. Name the male and female reproductive parts of a flower.
3. What role does pollination play in sexual reproduction in plants?

E. Long Answer Questions:

1. Explain the process of sexual reproduction in plants with the steps of pollination and fertilization.
2. How does a flower transform into a fruit through sexual reproduction? Describe the process in detail.
3. Why is sexual reproduction important for plants? Explain with examples.