

# **Chapter 2- Reproduction in Plants**

## **Multiple Choice Questions:**

1. Put a tick mark (✓) against the correct alternative in the following statements:	
(a) Pollen is produced in the:	

- 1. Filament
- 2. Style
- 3. Pistil
- 4. Anther

Solution: 4. Anther

- (b) Reproductive whorls of a flower are:
- 1. Stamens and carpels
- 2. Sepals and petals
- 3. Sepals and stamens
- 4. Petals and carpels

Solution: 1. Stamens and carpels

- (c) Grafting is a method of:
- 1. Artificial vegetative propagation
- 2. Sexual reproduction
- 3. Artificial pollination
- 4. Cross-pollination

Solution: 1. Artificial vegetative propagation



1. Tomato

2. Apple

3. Potato

Solution: 2. Apple

4. Pea

(d) Which one of the following is a false fruit?

Short Answer Questions:
Question 1.
Write two ways in which pollination may occur in plants.
Solution:
(a) Self-pollination.
(b) Cross-pollination.
Question 2.
Name the three agents of pollination.
Solution:
The three agents of pollination are:
(a) Insect
(b) Wind
(c) Water
Question 3.
Give two features of flowers which favour pollination by insects.
Solution:
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Specialities of insect-pollinated flowe	ers:
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(a	<ul> <li>These flowers are</li> </ul>	large with coloured	petals to attract insects.
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(b) The smell of the flower attracts in	nsects.
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## Question 4.

Name two characteristics of flowers in which pollination occur by the wind.

## **Solution:**

Special features of wind-pollinated flowers:

- (a) They produce light pollen so that it is easily carried away.
- (b) A large amount of pollen is produced.

#### Question 5.

What is a 'false fruit'? Give one example:

#### **Solution:**

The base of the flowers (thalamus) in false fruits becomes the main fleshy part of the fruit, while the ovary remains a small central part containing seeds. Example: Apple and Pear.

## Question 6.

Name any three agencies for dispersal of seeds.

#### **Solution:**

- a. Wind
- b. Water
- c. Man and animals, birds, bats, squirrels.

#### **Question 7**



#### Fill in the blanks by selecting suitable words:

(unisexual, fertilisation, fruit, stamen, anther, bisexual, pollination, seed, ovary)

#### **Solution:**

- a. A flower that bears both the male and the female parts is known as bisexual flower.
- b. A flower bearing only male or female parts is known as unisexual flower.
- c. Transfer of pollen grains from the anther to the stigma is known as **pollination**.
- d. Fusion of male cell with the female cell is called **fertilisation**.
- e. The ovule develops into a seed.
- f. The ovary of the flower develops into a fruit.

### **Long Answer Questions:**

#### Question 1:

1. What is vegetative reproduction?

#### **Solution:**

**Vegetative reproduction:** In this method, the vegetative parts of the plants produce new plants. The vegetative part means the leaf, stem and root. Potato, mint, ginger, banana etc. are reproduced by this method.

- Vegetative propagation can occur by natural methods as well as by artificial methods
- The natural method includes reproduction by the stem, by roots and by leaves.
- The artificial method includes reproduction by cutting, layering, grafting and tissue culture.

#### **Question 2**

Briefly explain why a gardener prefers to grow certain plants vegetatively?

#### **Solution:**

Gardener prefers to grow certain plants by the vegetative method. The advantages of doing so are as follows:

- 1. In a shorter time, Reproduction by vegetative parts takes place.
- 2. New plants, thus produced, spread very fast in a small area.



- 3. It is a surer method.
- 4. All the characters of the mother plant are retained by the daughter plants.

