

Class 5 GENERAL SCIENCE

Lesson= 4 – Pollination

II. Short Answer

Ans-1) Flower is the part of plant that contains the reproductive structure.

Ans-2) X

Ans-3) The transfer of pollen grains from the anther to the stigma is called pollination.

Ans-4) Wheat, barley, oats, rice, etc.

Ans-5) X

Ans-6) i. Calyx ii. Corolla iii. Androecium iii. Gynoecium

Ans-7) The tip of the pedicel is swollen and is called the thalamus.

Ans-8) Monosexual flowers have either the male or female reproductive parts, therefore they are also called incomplete flowers.

Ans-9) Self-pollination is the transfer of pollen grains from the anther to the stigma of the same flowers or between the flowers of the same plant.

Whereas cross-pollination is the transfer of pollen grains from the anther of one flower to the stigma of the flowers on different plants of the same species.

III. Long Answer

Ans-1) A flower consists of the following parts—

- a. Calyx – It consists of sepals which are green in colour and protects the flower during the bud stage.
- b. Corolla – The corolla consist of petals. It is the most attractive part of a flower.
- c. Androecium – It consist of the male reproductive part called stamens. Stamens contains of filament, anther and pollen grains.
- d. Gynoecium – It consist of the female reproductive structure of a flower called the carpel. It contains ovary, style, stigma and ovules.
- e. Stalk – The stalk attaches the flower to the stem.
- f. Thalamus – It is the swollen tip of the pedicel and it bears the whorls of the flower.

Ans-2) Pollination is the process by which pollen is transferred to the female reproductive organs of a plant, thereby enabling fertilisation to take place. For reproduction, male gametes from the pollen and the female gametes from the carpel must come in contact.

Ans-3) Flowers are divided into two types-

- i. Bisexual flowers- The flowers in which both the male and the female reproductive parts are present are known as bisexual flowers.
Eg – Hibiscus, Daffodils.

- ii. Monosexual or Unisexual flowers – The flowers in which either the male or female reproductive parts are present are known as monosexual or unisexual flowers.
Eg- Maize, Bittergourd.

Ans-4) Plants bear flowers to reproduce fruits and create a new generation.

Flower consist of the male and female parts which reproduce through the process of pollination when the pollen grains transfer from the anther to the stigma of the flower. Only then the ovary will develop in to a fruit and the ovules will form the seeds to continue a new generation of the plants.

Note it down in G.Science copy.

PAGE-48 A. Tick the correct option → 1. Ovary 2. Pollination 3. Bisexual 4. Corolla 5. Anther
6. Pollen

PAGE-49 B. Name the following → 1. Stamen 2. Ovary 3. Ovary 4. Pollination 5. Carpel
6. Thalamus

Do it in the book.