Name: _____ Date: _____

Reproduction in Plants

Q1. How does the process of fertilisation take place in flowers?

Ans. _____

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Q2. How the male gamete in the pollen grain reaches the female gamete present in the ovule?

Ans. _____

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Q3. Show self-pollination and cross pollination via a labelled diagram.

Ans.

Reproduction in Plants

Q1. How does the process of fertilisation take place in flowers?

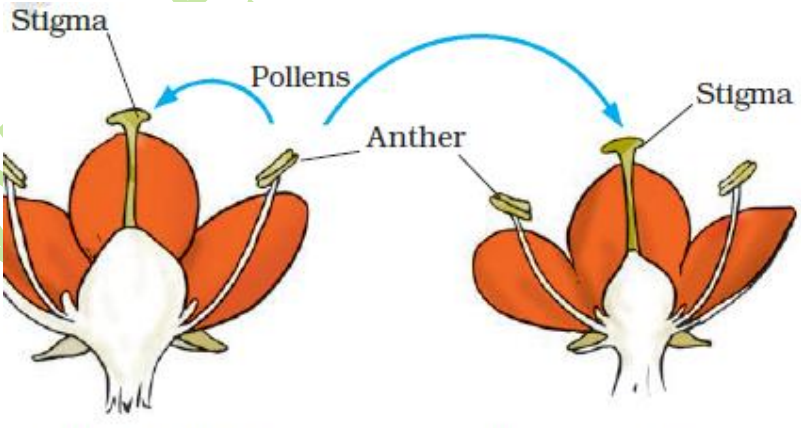
Ans. When ripe pollen from an anther of the same kind of flower catches on the stigma, each pollen grain sends out a tiny threadlike tube. The tube grows down through the style and pierces one of the ovules in the ovary. This pollen tube carries a male gamete to meet a female gamete in an ovule. Two gametes fuse together to form zygote. The process of fusion of male and female gametes (to form a zygote) is called fertilisation. The zygote develops into an embryo.

Q2. How the male gamete in the pollen grain reaches the female gamete present in the ovule?

Ans. Generally pollen grains have a tough protective coat which prevents them from drying up. Since pollen grains are light, they can be carried by wind or water. Insects visit flowers and carry away pollen on their bodies. Some of the pollen lands on the stigma of a flower of the same kind. Some pollen of a flower may lands on the stigma of a flower of a different plant of the same kind. Pollen grain on the stigma grows a tiny tube, all the way down the style to the ovary. This pollen tube carries a male gamete to meet a female gamete in an ovule.

Q3. Show self-pollination and cross pollination via a labelled diagram.

Ans.



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