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Biology 11 Unit 8 Assignment 1: What are the Functions of the Parts of the Flower Virtual Lab

Name of Flower Part	Description(s)	Function(s)
Anther	top of stamen	produces pollen containing sperm
Filament	long and slender	supports anther
Ovary	swollen base of pistil	contains ovules
Ovule	eggs	develop into seeds after being fertilized
Petals	colourful, leaflike	attract insects for pollination
Pistil	female reproductive organ	takes sperm
Sepals	leaflike	encloses flower during bud stage
Stamen	long and slender	supports anther
Stigma	the tip	receives pollen during fertilization
Style	stalklike	connects stigma to ovary

Journal Questions:

1. Which parts of the flowers are important in pollination? Describe the function of the parts and the process that occurs in pollination.

Male parts called stamen produce pollen while the female part called the pistil that takes in the pollen by a sticky part of the pistil names the stigma. This is how the reproduction of plants occur.

2. Which parts of the flowers are involved in fertilization and fruit development?

As previously stated the stamen which is made up of the anther and filament which produces pollen. the female parts are the stigma, style, the ovary. which make up the carpel.

3. Many types of flowers produce fruits that are fragrant and sweet tasting. Describe how these characteristic of fruits may be important for dispersal.

Seeds can be dispersed by animals or insects by the creature eating the fruit and leaving the seed or by the seed travelling through the digestive tract to become viable.

4. Many types of flowers are brightly colored, fragrant and produce sweet nectar. Describe how these characteristics affect the process of pollination.

The fragrance and bright colours of flowers attracts insects and animals for pollination.

5. Most species of plants produces flowers containing both stamen and pistils why is producing flowers with both male and female reproductive structures an advantage for plant?

Both male and female parts are an advantage for flowers because they allow the plant to be on both ends of the reproduction cycle and maximizing effectiveness.