

# Exercises

## SECTION I

### A. Name the following.

1. The colourful and reproductive part of a plant

.....

2. The various parts of a flower

.....

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3. The whorl that protects the flower in its bud stage

.....

4. The long and slender part of the stamen

.....

5. The female reproductive unit of the gynoecium

.....

6. Flowers that contain both stamen and pistil

.....

**B. Choose the correct option.**

1. Which of the following is not the part of a flower?  
a. Corolla                      b. Calyx                      c. Stamen                      d. Petiole
2. Which of the following is present inside the anther of a stamen?  
a. Pollen grains                      b. Male reproductive cells  
c. Male gametes                      d. All are correct
3. Stigma receives  
a. style                      b. pollen grains                      c. ovules                      d. seeds
4. Which of the following is not an example of a monosexual flower?  
a. *Hibiscus* flower    b. Papaya flower    c. Pumpkin flower    d. Watermelon flower
5. Pollination leads to the formation of  
a. ovules                      b. seeds                      c. male gametes    d. None of these

**C. Choose the correct option to fill in the blank.**

1. The outermost whorl of the flower is ..... (sepals/petals).
2. The ..... (anther/filament) is present at the tip of the stamen.
3. The ..... (style/stigma) is the sticky, swollen tip of the pistil that receives the pollen grains.
4. After fertilization, the ..... (ovary/style) forms the fruit.

A. Name the following. **Answers**

1. The colourful and reproductive part of a plant

..... Corolla (Petals) .....

2. The various parts of a flower

..... Calyx, Corolla, androecium, gynoecium. ....

3. The whorl that protects the flower in its bud stage

Calyx.

4. The long and slender part of the stamen

Filament.

5. The female reproductive unit of the gynoecium

Carpels or Pistils.

6. Flowers that contain both stamen and pistil

Bisexual flower.



**B. Choose the correct option.**

- Which of the following is not the part of a flower?  
a. Corolla                      b. Calyx                      c. Stamen                       d. Petiole
- Which of the following is present inside the anther of a stamen?  
 a. Pollen grains                      b. Male reproductive cells  
c. Male gametes                      d. All are correct
- Stigma receives  
a. style                       b. pollen grains                      c. ovules                      d. seeds
- Which of the following is not an example of a monosexual flower?  
 a. *Hibiscus* flower                      b. Papaya flower                      c. Pumpkin flower                      d. Watermelon flower
- Pollination leads to the formation of  
a. ovules                       b. seeds                      c. male gametes                      d. None of these

**C. Choose the correct option to fill in the blank.**

- The outermost whorl of the flower is ..... (sepals/petals).
- The ..... (anther/filament) is present at the tip of the stamen.
- The ..... (style/stigma) is the sticky, swollen tip of the pistil that receives the pollen grains.
- After fertilization, the ..... (ovary/style) forms the fruit.