

Flowers and Fruit

Section I

1. There are approximately _____ species of flowering plants.
2. The flower is a compressed stem with four sets of modified _____ that serve as floral parts.
3. Brightly colored sepals that look like petals are called _____.
4. The male organs of a flower are the _____.
5. _____ flowers have only male reproductive organs.
6. The _____ refers to the complete whorl of petals.
7. Pollen is produced in the _____.
8. Wind pollinated flowers usually have very small or no _____ at all.
9. Flowers lacking one or more of the four sets of floral parts are _____ flowers.
10. The _____ of the flower is the female portion and is divided into the _____, _____ and _____.
11. Flowers with brightly colored petals are usually pollinated by _____ or _____.
12. The basal or first whorl of floral parts is the _____.
13. Draw a longitudinal section of a dissected flower. (Next Page)

Flower

Section II

14. The transfer of pollen from the anther to the stigma is _____.
15. The female gametophyte of a flowering plant is the _____.
16. The _____ nuclei of the female gametophyte develop into the food storage tissue of a seed.
17. The male gametophyte of flowering plants is the _____.
18. The endosperm results from the union of a sperm nucleus and two _____.

19. Complete drawings of pollen grains, pollen tubes and plant ovules.

Section III

20. In flowering plants a ripened ovary is a _____.
21. The wall to a fruit is the pericarp. The pericarp is made up of the _____, _____ and _____.
22. A fleshy fruit such as a tomato is classed as a _____.
23. Dry fruit that do not split along a seam at maturity are _____.
24. A fleshy fruit with a hard stony pit is a _____.
25. A dry fruit that splits along only one seam is a _____.
26. _____ are dry fruit that split along more than two seams at maturity.
27. Fruit, such as apples, that contain tissue derived from structures other than the ovary are _____ fruit.
28. _____ fruit develop from many individual separate pistils of the same flower, while _____ fruit develop from many flowers that are produced very near each other.