**General Biology II Lab**

**Exercise 6 – Organization of Flowering Plants Name:**

**Before you leave the lab:**

1. Did you take a look at the germination model? \_\_\_\_\_\_\_ Compare to Figure 6-1. Can you tell the difference between monocot and eudicot germination? Identify the cotyledons.
2. Take a look at the root model, compare Figure 6-2, and identify:
   * root cap
   * root hairs
   * zone of cell division
   * zone of elongation
   * zone of maturation
   * dermal tissue
   * ground tissue and vascular tissue
3. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg Observe the slide of a monocot root and eudicot root under the microscope (Compare to Figure 6-3). Slide # \_\_\_\_
4. Did you take a look at the different types of roots on the lab bench? \_\_\_\_\_\_\_
5. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg Observe the slide of a monocot and eudicot stem under the microscope (compare to Figure 6-4). Notice where the vascular bundles are. Slide # \_\_\_\_
6. Take a look at the wood model, compare to Figure 6-5, and identify:
   * Bark
   * Cork
   * cork cambium
   * Phloem
   * vascular cambium
   * xylem and pith
7. What is primary growth?
8. What is secondary growth?
9. What does it meant by saying a plant is herbaceous?
10. Did you take a look a the different types of stems on the lab bench? \_\_\_\_\_\_\_
11. Observe leaf model, compare to Figure 6-5, and identify:
    1. upper epidermis
    2. lower epidermis
    3. vein
    4. spongy mesophyll and palisade mesophyll.
12. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg Observe the slide of cross-section of monocot and eudicot leaves under the microscope (compare to Figure 6-7). Slide # \_\_\_\_\_
13. Did you take a look at the examples of leaf diversity on the lab bench? \_\_\_\_\_
14. Did you take a look at the different types of fruit on the lab bench?