**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.  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.  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.  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?