**General Biology II Lab**

**Exercise 5 – Seed Plants Name:**

**Before you leave the lab:**

**Gymnosperms**

1. Did you take a look at gymnosperm specimens on the lab bench? \_\_\_\_\_\_
2. What are the 4 groups of Gymnosperms?
3. What does the word “Gymnosperm” mean?
4. Observe pine cone examples on lab bench. Which one is male, which one is female?
5. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpgLook at slide of female cone, notice the ovule on the cone scale. Slide# \_\_\_\_\_
6. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpgLook at slide of male cone, notice pollen grains. Slide # \_\_\_\_\_

**Angiosperms**

1. Refer to Figure 5-5 and fill in the Table:

|  |  |  |
| --- | --- | --- |
|  | **Monocots** | **Eudicots** |
| **Flower Parts** |  |  |
| **Cotyledons** |  |  |
| **Root Structure** |  |  |
| **Leaf Venation** |  |  |
| **Vascular Bundles in Stem** |  |  |

1. Take a look at the Flower Model and identify key structures:
   * Sepals
   * Petals
   * Stamen (anther and filament)
   * Carpel (stigma, style, ovary, ovule)
2. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg observe the Lily Anther Slide# \_\_\_\_\_\_\_ (notice the pollen grains)
3. http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg observe the Lily Ovule Slide# \_\_\_\_\_\_\_