**General Biology II Lab**

**Exercise 3 – Fungi Name:**

**Before you leave the lab:**

1. Did you look at all of the fungal specimens on the lab benches? \_\_\_\_\_\_\_
2. Zygomycota
   * + Include bread molds
     + Life cycle – look at Figure 3.1
     + http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg *Rhizopus* Slide #\_\_\_\_\_ Compare what you see to Figure 3.1
       - Sexual reproduction – zygospore develops in zygosporangium

Magnification \_\_\_\_\_

* + - * Asexual reproduction – more common, spores develop in sporangium

Magnification \_\_\_\_\_

1. Ascomycota

* Sac fungi
* Bread yeasts, common molds, morels
* Life cycle – look at Figure 3.2
  + Sexual reproduction – ascospores develop in ascus
    - http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg *Peziza* Slide # \_\_\_\_\_\_
  + Asexual reproduction – conidia (spores) develop in conidiophores
    - http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg*Penicillium, Aspergillus* Slide #\_\_\_\_\_, \_\_\_\_\_

*\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_*

* + Unicellular fungi – yeasts
    - http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg *Saccharomyces* Slide # \_\_\_\_\_\_

Magnification \_\_\_\_\_\_\_\_

1. Basidiomycota

* Mushrooms, puffballs
* Life cycle – look at Figure 3.3
  + Asexual reproduction – same as ascomycota
  + Sexual reproduction – basidium (along gills of basidocarp) produce basidiospores
* http://image1.masterfile.com/em_w/04/35/33/400-04353365w.jpg *Coprinus* Slide #\_\_\_\_\_ Compare what you see to Figure 3.3

Magnification \_\_\_\_\_\_