

## Biology Chapter 21: Homework

### Hmwrk 21-1

1. What are the characteristics of fungi? Name two examples of fungi.
2. What are hyphae? What type of fungi have hyphae?
3. What is mycelium? What is its purpose?
4. What are sporangiophores and what do they produce?
5. Describe how fungi spread.

### Hmwrk 21-2

1. How does bread mold attach to bread?
2. What is a gametangia and what does it produce?
3. What are asci and what happens inside it?
4. Describe why bread rises and why there is no alcohol taste in bread.
5. What are club fungi?

### Hmwrk 21-3

1. What are saprobes?
2. Why are fungi important in maintain ecosystem equilibrium?
3. What are rusts caused by fungi? What impact do they have on humans?
4. What are lichens?
5. What are mycorrhizal relationships?

## Biology Chapter 21: Study Guide

### Section 1

- Vocabulary

Chitin

Mycelium

Sporangium

Hypha

Fruiting body

Sporangiospore

- Know the characteristics of fungi
- Know the structure of fungi
- Know what fairy rings are
- Be able to describe both sexual and asexual reproduction of fungi
- Know what the mating types are called
- Know the different methods fungi use to spread themselves from one location to the next

### Section 2

- Vocabulary

Zygosporangium

Conidium

Basidium

Rhizoid

Ascus

Basidiospore

Stolon

Ascospore

Gametangium

Budding

- Know the characteristics of the four main groups of the common molds
- Know the structure and function of bread mold including the scientific name
- Be able to describe the life cycle of bread mold
- Know Figure 21-5 on page 531
- Know the asexual and sexual reproduction method of ascomycetes
- Know Figure 21-7 on page 533
- Know what yeast are, how they reproduce and what humans use them for
- Know what the genus name for the common baking yeast
- Know how yeast make bread rise
- Be able to the life cycle of basidiomycetes
- Know Figure 21-8 on page 534
- Know the different varieties or diversity of club fungi
- Know that there are edible and inedible types of fungi
- Be able to explain why you should never eat mushrooms you find in the wild
- Know how fungi are usually classified
- Know how fungi are grouped until their sexual phases are discovered, if one
- Know the best known imperfect fungi and its human importance

### Section 3

- Vocabulary

Saprobe

Lichen

Mycorrhiza

- Know the early history of fungi back when life first moved onto the land
- Know the different methods fungi use to obtain energy
- Know the importance of decomposers in the ecosystem
- Know what effects corn smut, mildews, and rusts have on plants and humans and the symptoms of those infections

- Know what effects athlete's foot, ringworm and yeast infections have on humans and the symptoms of those infections
- Know what role bacteria plays in yeast infections
- Know what effects *Cordyceps* have on animals and the symptoms of the infection
- Know what symbiotic relationships are and why they exist
- Know what lichen and mycorrhizae are and the characteristics of each