**Characteristics Of Fungi** (p. 482 – 488)

**I. Kingdom Fungi**

**1. Circle the letter of the sentence that is true about fungi.**

a. Fungi are heterotrophic organisms lacking chlorophyll.

b. They are made of long, slender filamentous bodies.

c. Cell walls are made of cellulose.

d. Mitosis occurs within the nucleus.

**II. Structures & Nutrients**

**1. Differentiate between hyphae and mycelium.**

Hyphae : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mycelium : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. How do fungi digest their food?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Some fungi are parasites.**

Circle One : True False

**4. List four products made from fungi.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**III. Reproduction**

**1. What reproductive structure do fungi produce? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Most fungi can reproduce only asexually.**

Circle One : True False

**IV. Reproductive Strategies** *(“Imperfect Fungi”)*

**1. Fungi capable of asexual reproduction only are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**2. List the commercially-used product of each fungus.**

*Penicillium* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *Aspergillus* : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. List two diseases caused by deuteromycetes.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**V. Zygomycetes** *(“Common Molds”)*

**1. What are zygomycetes?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. What is the common name for *Rhizopus stolonifer*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. Match the terms with the correct definitions.**

1. \_\_\_\_\_\_\_\_ *Sporangia* A. Specialized hyphae: look like stalks.

2. \_\_\_\_\_\_\_\_ *Sporangiophore* B. Root-like hyphae that anchor fungi.

3. \_\_\_\_\_\_\_\_ Stolons C. Spore producing structures in fungi.

4. \_\_\_\_\_\_\_\_ Rhizoids D. Mycelia that grow along the surface.

**4. Sexual reproduction is more common with zygomycetes.**

Circle One : True False

**VI. Ascomycetes** *(“Sac Fungi”)*

**1. Define the term ascus.**

Ascus –

**2. Circle the letter of each sentence that is true about ascomycetes.**

a. Ascomycetes usually reproduce sexually.

b. Reproduction involves fission or budding.

c. Around 1990, chestnut blight wiped out most chestnut trees in the eastern United States.

d. Morel mushrooms and truffles are examples of ascomycetes.

**3. Ascomycetes make up the largest phylum in the Kingdom Fungi.** *(Not in the book.)*

Circle One : True False

**4. Identify the product or disease caused the following fungi.**

*Saccharomyces cerevisiae* (product) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Candida albicans* (disease) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**VII. Basidiomycetes** *(“Club Fungi”)*

**1. List four examples of basidiomycetes.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Define the term basidium.**

Basidium –

**3. Asexual reproduction is uncommon among basidiomycetes.**

Circle One : True False

**4. What are rusts and smuts?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. What is the significance of the *Amanita* species of basidiomycetes?**

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