

Name \_\_\_\_\_

Course/Section \_\_\_\_\_

Date \_\_\_\_\_

Professor/TA \_\_\_\_\_



### Activity 31.1 How diverse are the fungi in form and function?

1. a. What is the basic body plan of most fungi?

b. Which fungi do not share this basic body plan?

2. Fungi may be said to have both plantlike and animal-like characteristics. What plantlike characteristics do fungi have? What animal-like characteristics?

3.

a. Into what four major phyla (or divisions) is the kingdom Fungi divided?	b. On what basis are these divisions made?

4. Is it more correct to describe a mushroom as haploid or diploid? Explain.

5. If you did not know that fungi were primarily terrestrial organisms, what structures or features of the organisms would suggest that they were terrestrial?

6. a. In what ways are fungi important in the ecosystem?

b. In what ways are fungi important to humans?

7. Lichens are symbiotic associations of a fungus, usually an ascomycete, and an alga, usually a green algal species or a cyanobacterial species. Lichens can often survive in harsh natural environments.

a. To what environmental conditions are lichens well adapted?

b. What makes them so well adapted to these conditions?