

# 2025 Fall BIOL 1209

## Quiz 08

Name: \_\_\_\_\_

Section: \_\_\_\_\_

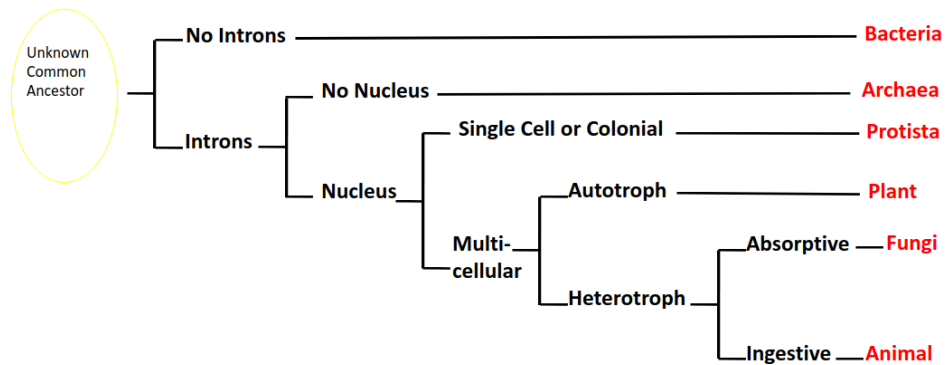
Date: \_\_\_\_\_

Time: 10 min

Max. points: 10

1. Use the below phylogenetic tree to answer the following questions.

- What is this tree showing on the tip labels? Circle one: domains | kingdoms | phyla/groups (1 pt)
- List 3 traits of Fungi based on the tree. (3 pt)



2. Figure 1 below shows the data from a lake field study. Using this, answer the following questions:

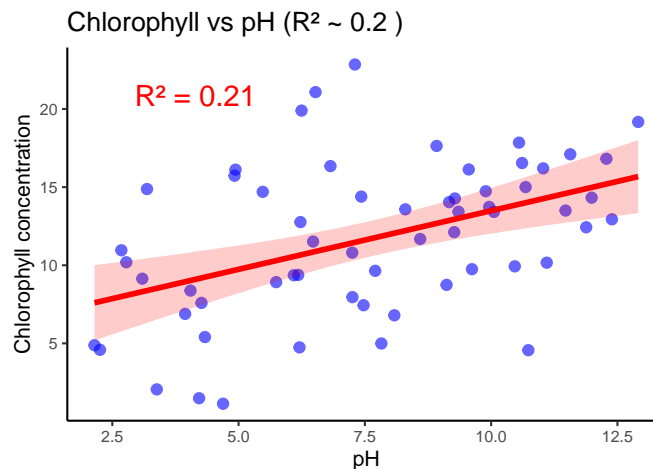


Figure 1: **Change in chlorophyll concentration with different pH values.** Results of lake field study testing chlorophyll concentration versus pH. Points represent raw data, and the line and shaded region represent linear trend.

- Name the independent and dependent variables in the study, and mention for each whether it is an abiotic or a biotic factor. (2 pt)

- b. What does the amount of chlorophyll serve as a proxy for in this study? In other words, what does this value tell you about the lake water? **(1 pt)**
- c. What kind of organism(s) are being monitored in this study? Circle one: autotrophs | heterotrophs **(1 pt)**
- d. Name the role of these organism(s) in the food web of the lake (hint: trophic level). \_\_\_\_\_ **(1 pt)**
- e. Would you say Figure 1 is showing a logistic, exponential, or linear **growth curve**? **(1 pt)**  
Circle one: logistic | exponential | linear | none