

2025 Fall BIOL 1209

Quiz 08

Name: _____

Section: _____

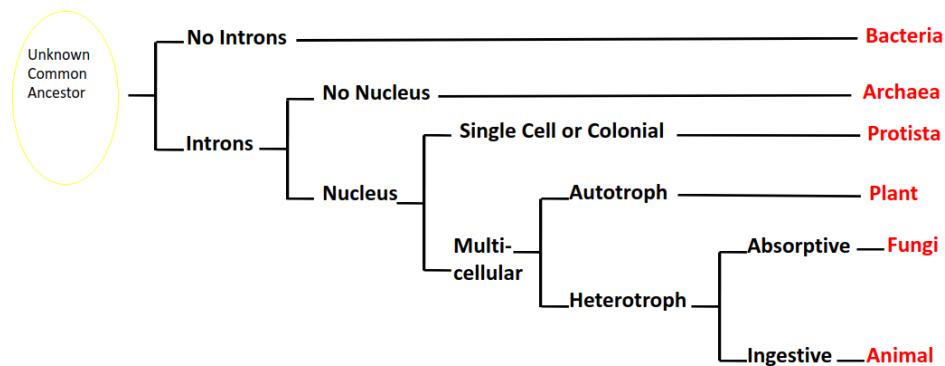
Date: _____

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:

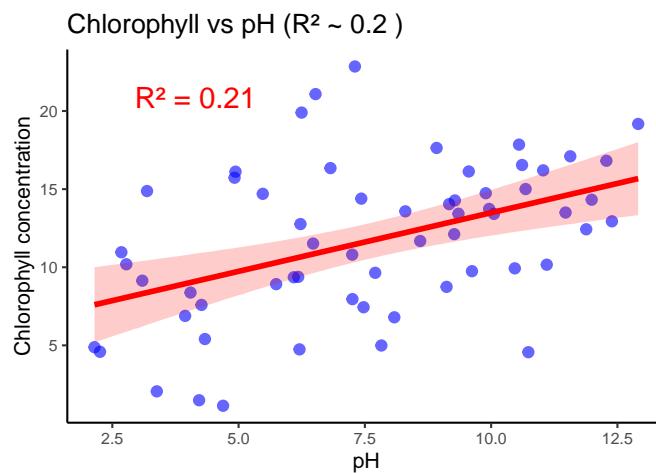


Figure 1: Change in chlorophyll concentration with different pH values. Results of lake field study testing chlorophyll concentration versus pH. Points represent raw data, and the line and shaded region represent linear trend.

- 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