

# 2025 Fall BIOL 1209

## Quiz 04

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

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

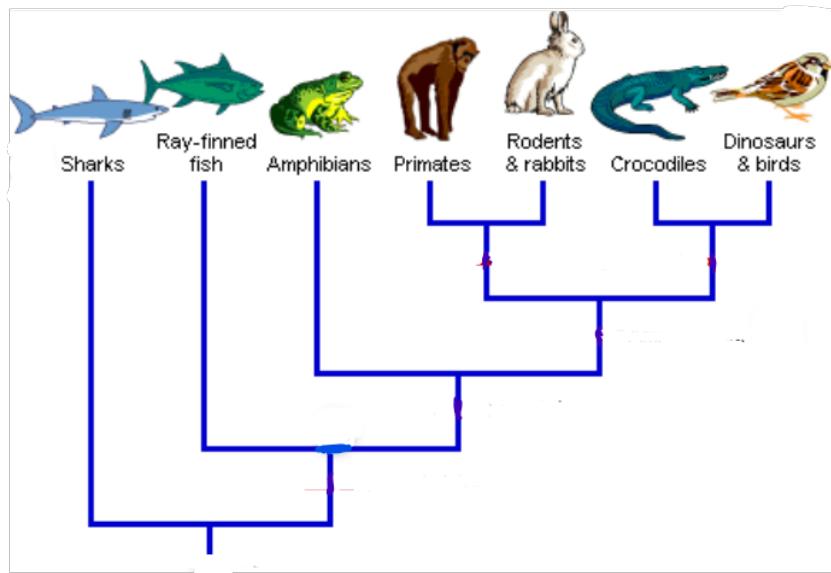
Date: \_\_\_\_\_

Time: 10 min

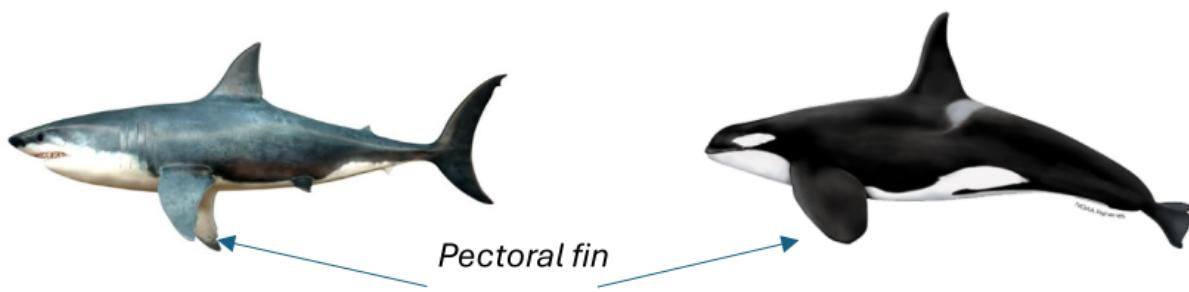
Max. points: 10

1. Distinguish between homologous and analogous traits. (2 pt)

2. Sister taxa are those that are most closely related to each other. Using the phylogenetic tree below, circle any one pair of sister taxa. (2 pt)



3. Pectoral fins of sharks and killer whales are \_\_\_\_\_ traits. (1 pt)



4. Label the following factors as either *biotic* or *abiotic*: (2 pt)

- a. Temperature \_\_\_\_\_
- b. Dissolved oxygen \_\_\_\_\_
- c. Sunlight \_\_\_\_\_
- d. Parasites \_\_\_\_\_

5. What is one difference between autotrophs and heterotrophs? Also name one example organism for each. (2 pt)

6. Which lake has the clearest water according to the following data? \_\_\_\_\_ (1 pt)

Lake name	Secchi disk reading (average $\pm$ SD) (cm)
Crest Lake	200 $\pm$ 10
City Park Lake	230 $\pm$ 10
University Lake	40 $\pm$ 5