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

Instructions:

-Use the Scantron Form to answer the multiple-choice questions.

-Below: Answer 2 of the 3 short long questions. Also answer 1 of the 2 long response questions.

**SHORT ANSWER QUESTIONS: (choose 2 of the 3 options) 10 pts each.**

**25. Describe the differences between a monophyletic, paraphyletic, and polyphyletic tree.**

**Identify which tree is monophyletic, paraphyletic, and polyphyletic. For example: group 1 is monophyletic etc.**



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**26. Describe 5 attributes of organisms of the domain bacteria.**

**Describe 5 attributes of organisms of the domain Archaea**

**Explain the evolutionary relationship between Bacteria and Archaea.**

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**27.** **Describe 3 characteristics each groups of protist (Algae, Slime molds, and protozoa).**

**Describe how each group resembles another group of organism (animals, fungi, plants etc).**

**LONG RESPONSE QUESTIONS: Choose 1 of the 2 options (10 pts).**

**28.** **Describe the lytic pathway of a virus and compare it with the lysogenic pathway of a virus.**

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**29.** **Fungi have unique reproductive cycles. Explain the reproductive cycle and main structures of Basidiomycota.**