**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Evolution and Classification Test Review**

1. Why is a standard classification system necessary?
2. List the 8 taxa in order from broadest to narrowest.

1. One of the taxa is Kingdom. List the 6 Kingdoms.
2. Correctly write the scientific name of a cheetah.

**Fill in the blank with the correct Kingdom.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. All contain chloroplasts to aid with photosynthesis.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Thrive in extreme environmental conditions; primitive

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. Have cell walls made of chitin.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Have cell walls made of cellulose.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Contain organisms that are plant, fungus, or animal-like.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Contain cell walls with peptidoglycan.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. Contain multicellular heterotrophs lacking a cell wall.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. This kingdom contains amoebas and paramecium.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13. This kingdom contains yeasts.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14. Contains organisms that are unicellular eukaryotes.



15. Fill in the Venn diagram that illustrates

the similarities and differences between viruses

and bacteria.

16. Describe the events of the lytic and lysogenic cycles below.



17. Define the following terms:

|  |  |
| --- | --- |
| Evolution |  |
| Natural Selection |  |
| Fitness |  |
| Adaptation |  |
| Variation |  |
| Common Ancestor |  |
| Homologous Structure |  |
| Analogous Structure |  |
| Vestigial Structure |  |
| Taxonomy |  |
| Autotroph |  |
| Heterotroph |  |
| Pathogen |  |
| Vaccine |  |
| Binomial Nomenclature |  |

18. Describe what is happening in figures 1-3 to the right. Is the population of mice different in figure 3 than in figure 1? Explain why.

19. Draw and explain the three types of natural selection

|  |  |  |
| --- | --- | --- |
| http://www.daviddarling.info/images/x_and_y_axes.gif | http://www.daviddarling.info/images/x_and_y_axes.gif | http://www.daviddarling.info/images/x_and_y_axes.gif |

20. List and briefly describe the evidence of evolution

**A.**

**B.**

**C.**

**D.**

**E.**

21. The table shows a comparison of some amino acids found in cytochrome c. Which two organisms are most closely related to each other?

22. What is a vestigial structure? Give an example.

****23. The picture to the right shows homologous structures. These structures provide evidence of what?

24. Describe and give an example of Genetic Drift

25. Describe and give an example of Gene Flow

26. Describe and give an example of Artificial Selection

27. Describe and give an example of Sexual Selection