Study Guide for Classification Test
(50 points)

1. The cougar has the scientific name FELIS CONCOLOR. Write this name correctly in the space below. (3)

2. Who is the person that came up with the brilliant idea to give all living things two names in a language that all scientists could understand (Latin)? (1)
   a. Charles Darwin  
   b. Gregor Mendel  
   c. Carolus Linnaeus  
   d. Aristotle

3. Why did the person who invented “binomial nomenclature” use Latin instead of French or English to name living things? (1)

4. Like all organisms, the common fruit fly has two names: Drosophila melanogaster. Drosophila is the ____________ name while melanogaster is the ____________ name. (2)

5. What is the scientific name for all human beings? (2)
   __________________  __________________

6. Write the 7 Levels of Classification in order beginning with “Kingdom” (7)
   1.  
   2.  
   3.  
   4.  
   5.  
   6.  
   7.  

7. The six Kingdoms of living things are: Archaeabacteria (Monera), Eubacteria (Monera), Protista, Fungi, Plantae, and Animalia. Answer the following questions about these kingdoms:
   a. An organism that is both heterotrophic and multicellular. Which two kingdoms could this organism belong to? (2)
      __________________  and/or __________________
   b. An organism is single-celled, lacks a nucleus,  and lives in a hot geyser in Yellowstone National Park. It must belong to which kingdom? (1)
      __________________
c. An organism is multicellular and autotrophic. To which kingdom does it belong? (1) _______________________

d. Bacteria living in you intestines belong to which kingdom? (1) _______________________

e. What is one thing that makes fungi very different from plants? (1) _______________________

8. Is a maple tree an autotroph of a heterotroph? Explain why. (2)

9. What does a vertebrate (Phylum Chordata) have that an invertebrate does not have? (1)

10. List the groups of animals that are vertebrates: (5)

a. ____________________________
b. ____________________________
c. ____________________________
d. ____________________________
e. ____________________________

Multiple Choice: Circle the correct answer (1 pt. each)

11. In the process of photosynthesis, plants make their own food by capturing energy from what?
   a. animals  b. the sun  c. soil  d. water

12. Heterotrophs get their energy from
   a. cholorophyll  b. photosynthesis  c. themselves  d. food

13. The level of organization (taxonomic group) between class and family is
   a. species  b. genus  c. order  d. phylum

14. What is the science of classification called?
   a. agronomy  b. astronomy  c. phylogeny  d. taxonomy

15. Which is a member of the Fungi Kingdom?
   a. grasshopper  b. bread mold  c. flower  d. *Euglena*

16. Which kingdom has some single-celled members?
**Interpreting Diagrams:** Use the table below to answer the following questions

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Aardwolf</th>
<th>Coyote</th>
<th>Grey Wolf</th>
<th>Blue Whale</th>
<th>Red Wolf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kingdom</td>
<td>Animalia</td>
<td>Animalia</td>
<td>Animalia</td>
<td>Animalia</td>
<td>Animalia</td>
</tr>
<tr>
<td>Phylum</td>
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<td>Mammalia</td>
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</tr>
<tr>
<td>Order</td>
<td>Carnivora</td>
<td>Carnivora</td>
<td>Carnivora</td>
<td>Cetacea</td>
<td>Carnivora</td>
</tr>
<tr>
<td>Family</td>
<td>Hyaenidae</td>
<td>Canidae</td>
<td>Canidae</td>
<td>Balenopteridae</td>
<td>Canidae</td>
</tr>
<tr>
<td>Genus</td>
<td>Proteles</td>
<td>Canis</td>
<td>Canis</td>
<td>Balenoptera</td>
<td>Canis</td>
</tr>
<tr>
<td>Species</td>
<td>cristatus</td>
<td>latrans</td>
<td>lupus</td>
<td>musculus</td>
<td>rufus</td>
</tr>
</tbody>
</table>

17. Each organism belongs to which kingdom? (1)

18. Which three of the seven levels of organization (taxonomic groups) do all the organism have in common? List them. (3)

19. Which organism is the least similar to the others? (1)

20. Which three organisms are the most similar to each other? (3)

21. Fill in the appropriate classification. L = living, D = dead, N = nonliving (1/2 pt each)

   a. Gerbil _____
   b. Oxygen _____
   c. Dried mushroom _______
   d. Copper penny _______
   e. Oak tree _______
   f. Surf board _______
   g. Stuffed duck _______
   h. Salmonella _______
22. Why do scientists have a hard time agreeing on whether or not a virus is alive? Need to mention at least 2 reasons. (2)

*Extra Credit: List the 6 Characteristics of Living Things (6 points!)