

## BIO 130: Taxonomy Worksheet 6

(Total Points:100)

Name: **Adrien Montalvo** \_\_\_\_\_ Date: **9/28/20** \_\_\_\_\_

**Study the Chart provided and make choices.**

**Answer true or false. (12x2 =24 pts)**

1.   **T**   Lions belong to the class mammalia.
2.   **F**   All rodents belong to the phylum chordata.
3.   **T**   The class mammalia includes dogs, cats and squirrel.
4.   **F**   A lion belongs to the genus Felis.
5.   **F**   All amphibians belong to the class reptilia.
6.   **F**   Dogs belong to the order Felidae.
7.   **T**   Insects and lobsters are arthropods.
8.   **T**   Snakes belong to the phylum Reptilia.
9.   **T**   All mammals are primates.
10.   **F**   A fox belongs to the phylum Arthropoda.
11.   **F**   All arthropods belong to the Class Insecta
12.   **T**   All primates are mammals.

**In each set, circle the pair that is most closely related. (6x2 = 12 pts)**

13. lions & tigers | lions & cougars
14. rats & cats | cats & dogs
15. foxes & rats | foxes & dogs
16. insects & lobsters | insects & birds
17. cats & dogs | cats & lions
18. snakes & crocodiles | snakes & frogs

**19. List all the animals pictured that belong in the Felidae Family (8pts)**

Panthera leo, Panthera tigris, Felis concolor, and Felis domesticus

**20. List all the animals pictured that belong to the Carnivora order (8 pts)**

Genus vulpes, Canus lupis, Canis familiaris, Felis domesticus, Felis concolor, Panthera tigris, and Panthera leo

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## Use of Dichotomous Key(12 x4= 48)

**Instructions:** There is a list of 13 Organisms whose common names are given in the chart below. The Dichotomous key is given under the chart. Use the dichotomous key to find the Scientific names of each organism and fill out the chart. Scientific names are made of 2 words and are written in a specific way. The first letter of the name is **Upper case**, all other letters are written in lower case. The whole name is **underlined** . **One organism is done for you.** # 11. cow is done here. Always start with # 1 in the dichotomous key. 1. in the key has 2 characteristics. Cow is an animal, so go to # 2; cow has no wings. Go to # 6 ; Cow lives on land, go to #7 Cow has no fluffy fur. The scientific name is written in the right hand column which in this case is Bos taurus

Common Name	Scientific Name	Common Name	Scientific Name
1. dog	<u>Canis familiaris</u>	7. canary	<u>Serinus canaria</u>
2. shark	<u>Carcharodon carcharias</u>	8. oyster	<i>Crassostrea gigas</i> or <u>Haematopus ostralegus</u>
3. skunk	<u>Mephitis mephitis</u>	9. mosquito	<u>Ochloerotatus taeniorhynchus</u>
4. turkey	<u>Meleagris gallopavo</u>	10. mushroom	<u>Boletus edulis</u>
5. dolphin	<u>Tursiops truncates</u>	11. cow	<u>Bos taurus</u>
6. eagle	<u>Haliaeetus leucocephalus</u>	12. pine tree	<u>Pinus ponderosa</u>
		13. ivy	<u>Rhus toxicodendron</u>

The Dichotomous Key is in the next page

Find and match the scientific names of the organisms' common names using the following Dichotomous key:

1. animal not an animal	go to 2 go to 11
2. has wings no wings	go to 3 go to 6
3. has feathers no feathers	go to 4 <u>Ochloerotatus taeniorhynchus</u>
4. flies high does not fly high	go to 5 <u>Meleagris gallopavo</u>
5. often yellow not yellow	<u>Serinus canaria</u> <u>Haliaeetus leucocephalus</u>
6. lives in water lives on land	go to 9 go to 7
7. has fluffy fur no fluffy fur	go to 8 <u>Bos taurus</u>
8. common pet not a common pet	<u>Canis familiaris</u> <u>Mephitis mephitis</u>
9. has fins no fins	go to 10 <u>Haematopus ostralegus</u>
10. razor sharp teeth pegged, pointy teeth	<u>Carcharodon carcharias</u> <u>Tursiops truncates</u>
11. green not green	go to 12 go to 13

12. grows tall does not grow tall	<u>Pinus ponderosa</u> <u>Rhus toxicodendron</u>
13. can be poisonous not poisonous	<u>Boletus edulis</u> <u>Rosa sylvestris</u>

