

Biology Study Guide

Name: _____

Unit 9: Classification and Taxonomy, Microorganisms

The material in the unit is covered in chapters 18-21 in Biology by Miller and Levine.

1. The scientific name for an Arctic Hare is *Lepus arcticus*. In this example, what parts of classification does the name give you? _____

2. Fill in the blanks with the missing taxa:

Kingdom _____ Class _____ Family _____ Species _____

3. If two organisms are classified in the same genus, what must also be true?

4. What is the scientific name for humans? What does it mean? _____.

5. If two organisms are in different families, they must be in different phyla. True or False.

6. Assign each of the following words and phrases to one of the columns below.

No nucleus ; has a nucleus ; no membrane bound organelles ; relatively small ; relatively large; has membrane bound organelles

Prokaryotes

Eukaryotes

7. What are three similarities between the two types of cells, prokaryotes and eukaryotes?

8. Define a dichotomous key: _____

9. Protists, Fungi, Plants and Animals all share a common characteristic--their cells are all _____.

10. Give the defining characteristics of each of the four eukaryotic kingdoms.

Protista -

Fungi -

Plants -