

Biology 2201 - Unit 2 - Biodiversity
Homework Reading Sheet 2 pages 108-121

- The branch of Biology dealing with the classification of organisms is called
 - Grouping
 - Taxonomy
 - Phylogeny
 - Physiology
- The modern system of classification was developed by
 - Linnaeus
 - Leeuwenhoek
 - Darwin
 - Aristotle
- Which language is the basis of most scientific names used in classification?
 - German
 - English
 - Russian
 - Latin
- Which taxon includes only organisms that are capable of interbreeding to produce fertile offspring?
 - Genus
 - Species
 - Family
 - Phylum
- Crayfish and Starfish belong to the same Phylum.
 - True
 - False
- Which is not a common name for the species *Puma concolor*?
 - Mountain lion
 - Puma
 - Cougar
 - Bobcat
- Which type of evidence for classification would have to be observed in living organisms?
 - Behavior
 - Fossil records
 - Anatomy
 - Biochemistry
- Biologists usually use one main characteristic to classify organisms.
 - True
 - False
- What is unusual about the fossil called *Archaeopteryx*?
 - It is extinct
 - It has no bones
 - It has characteristics of birds and reptiles
 - It has characteristics of birds and mammals
- How is radioactive dating used in Biology?
 - To determine the age of fossils
 - To determine the birthdate of important scientists
 - To login to an on-line dating service
 - To find a recipe for date squares
- The bones in the forelimbs of humans, horses, bats and whales are all similar. What does this

suggest about these organisms?

- A. Each evolved from one of the others
 - B. They all have a common ancestor
 - C. All evolved separately
12. What evidence links sea squirts to chordates such as humans?
- A. Embryology
 - B. Anatomy
 - C. Behavior
 - D. fossils
13. Which type of cellular chemical substance is often used to help classify organisms?
- A. Water
 - B. Proteins
 - C. Ions
 - D. Fats
14. Which organelle contains DNA that is passed along to offspring from the mother (in the egg) rather than the father (in the sperm)?
- A. Mitochondrion
 - B. Nucleus
 - C. Vacuole
 - D. Ribosome
15. The type of proteins a cell produces depends upon its
- A. Cell membrane
 - B. Hormones
 - C. Genes
 - D. Cytoplasm
16. Characteristics found in a species that were not found in their ancestor species are called ___ characteristics.
- A. Derived
 - B. Evolved
 - C. Developed
 - D. Mutated

Match the common name with the species name in each of the following:

___ 17.	<i>Rangifer tarandus</i>	A. Bobcat
___ 18.	<i>Canis latrans</i>	B. Human
___ 19.	<i>Lynx rufus</i>	C. Impala
___ 20.	<i>Aepyceros melampus</i>	D. Reindeer
___ 21.	<i>Homo sapiens</i>	E. Coyote