

Name: _____

Wilmet Evolution Review

1. Define species: **group of organisms that can interbreed and produce fertile offspring**
2. What was Jean Baptiste de Lamarck's contribution to evolution? **Theory of Acquired Characteristics. Thought that acquired traits could be passed on to offspring. Proven False.**
 - a. What animal at the zoo provided a perfect example of his theory (his theory was found to be incorrect)? **Gorilla**
3. The deeper the fossil is found under the Earth, the **older** it is.
4. Charles Darwin:
 - a. Sailed on the **ship HMS Beagle**
 - b. What observation did Darwin notice between the finches on Ecuador (mainland South America) and those on the different islands of the Galapagos? **There was much VARIATION between them, depending on the food available. The common ancestor must have been a mainland species.**
5. Four Components of Natural Selection:
 - a. **Overproduction of Offspring**
 - b. **Variation**
 - c. **Adaptation**
 - d. **Descent with Modification** (Survival of the fittest)
6. Using the four components above, match the principle of natural selection with the correct definition:
 - a. **Overproduction of Offspring**- Producing many offspring, some of which may not survive.
 - b. **Variation**- Heritable differences that make an individual unique.
 - c. **Adaptation**- An advantageous trait, one well suited for the environment.
 - d. **Descent with Modification**- A heritable, advantageous trait becoming more common in a population.
7. Circle one: **Natural Selection acts on existing traits** or Natural selection works on DNA.
8. Sexual Selection Definition: **a trait that increases mating success**
 - a. What is the difference between Intra-sexual and Intersexual selection? **Intrasexual is competition among the males and inter is males showing off their "sexy traits" (courtship).**
 - b. Why are the females so picky about their male mates?
The higher cost of reproduction in females
9. For the following choose either **VARIATION** or **ADAPTATION**
 - a. ☒ **V** The physical difference between organisms in a population
 - b. ☒ **A** A feature that allows an organism to better survive in its environment
 - c. ☒ **A** A tortoise population lived in an area with tall grass. These tortoises have longer necks than tortoises that live in other areas. Having a long neck is an example of this
 - d. ☒ **V** One fish in a population has slightly darker scales than his relatives. The difference in color of scales is an example of this.

High School Evolution Study Guide

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