Evolution Study Guide Answer Key

- EVOLUTION or change over time, is the process by which modern organisms have descended from ancient organisms
- A scientific <u>THEORY</u> is a well supported, testable explanation of phenomena that have occurred in the natural world.
- CHARLES DARWIN was an English naturalist who made numerous observations during his travels on the Beagle which led him to pose a hypothesis about how life changes over time.
- FOSSILS are the preserved remains of ancient organisms that provide evidence for how life has changed over time.
- JEAN-BAPTISTE LAMARCK proposed that the selective use or disuse of an organ led to a change the
 organ that was then passed on to the offspring.
- FITNESS is the ability of an individual to survive and reproduce in its specific environment.
- The process whereby individuals that are better suited to their environment survive and reproduce more successfully is called <u>NATURAL SELECTION</u>, which Darwin nicknamed <u>SURVIVAL OF THE</u> <u>FITTEST</u>
- Structures that have different mature forms but develop from the same embryonic tissues are called HOMOLOGOUS STRUCTURES
- Homologous structures that are so reduced in size that they no longer function, like the human appendix or legs in skinks, are called VESTIGIAL organs
- The idea that each living species has descended with changes over time from other species is called DESCENT with MODIFICATION.
- 11. Dolphins, penguins, and sharks are distantly-related species that share similar characteristics which help them live in water. This is an example of <u>CONVERGENT</u> evolution.
- Even though the Galapagos finches share a common ancestor, they have evolved to fit the ecosystems of their individual islands. This is an example of DIVERGENT evolution.
- 13. Another name for divergent evolution is **ADAPTIVE RADIATION**

MULTIPLE CHOICE

Circle the answer that best completes the statement.

A well supported, testable explanation of phenomena that have occurred in the natural world is called a

- A. hypothesis
- B. theory
- C. law

Of all the places he visited, the ______ Islands influenced Darwin's ideas about evolution the most.

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William A. Haviland

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