

Assessment

Quiz**Section: Applying Darwin's Ideas**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. Darwin's key idea explains
a. that the Earth is about 3.5 million years old.
b. evolution occurring at a rapid rate.
c. evolution by natural selection.
d. that intermediate fossils do not exist.
- _____ 2. Which is a key part of natural selection?
a. inherited variation c. homologous structures
b. environmental variation d. low reproductive rates
- _____ 3. The fossil record
a. will grow but will never be complete.
b. provides evidence of evolution.
c. is a record of Earth's past life-forms.
d. All of the above
- _____ 4. A homologous structure is one that
a. is nonfunctional.
b. indicates common ancestry.
c. is reduced in size.
d. is found in all species.
- _____ 5. Species that share a very distant common ancestor
a. have many amino acid sequence differences.
b. have few amino acid sequence differences.
c. have identical nucleotide sequences.
d. are not represented by the fossil record.

In the space provided, write the letter of the description that best matches each term.

- _____ 6. natural selection a. a trait that helps an organism survive and reproduce
- _____ 7. adaptation b. a remnant of an organism that lived long ago
- _____ 8. hemoglobin c. most likely had a four-legged mammalian ancestor
- _____ 9. fossil d. a mechanism for how evolution occurs
- _____ 10. modern whales e. a molecule that is compared among species to determine evolutionary relationships