

**SECTION**  
**10.5**EVOLUTIONARY BIOLOGY TODAY  
**Section Quiz**

Choose the letter of the best answer.

- \_\_\_\_\_ **1.** Paleontology is the study of
- a.** ecosystems.
  - b.** genetics.
  - c.** fossils.
  - d.** rocks and minerals.
- \_\_\_\_\_ **2.** Two organisms that are closely related would have
- a.** very similar DNA sequences.
  - b.** exactly the same DNA sequences.
  - c.** no proteins in common.
  - d.** completely different DNA sequences.
- \_\_\_\_\_ **3.** What are pseudogenes?
- a.** cell structures that function like genes
  - b.** gene sequences that no longer function
  - c.** protein sequences that look like genes
  - d.** mutations in nucleotides
- \_\_\_\_\_ **4.** Evolution is considered to be one of the most important theories in science, because it
- a.** was developed more than 100 years ago.
  - b.** is not supported by the fossil record.
  - c.** unites the fields of biology, geology, chemistry, and ecology.
  - d.** was discovered by Charles Darwin, a famous scientist.
- \_\_\_\_\_ **5.** Protein sequences in one organism that resemble those of another suggest a
- a.** coincidence.
  - b.** lack of evolutionary relationship.
  - c.** great number of mutations.
  - d.** shared ancestry.