

## Assessment

**Quiz****Section: Modern Systematics**

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

- \_\_\_\_\_ 1. What do biologists use to determine if organisms are the same species?
- comparisons of appearance
  - comparisons of structure
  - comparisons of DNA and proteins
  - All of the above
- \_\_\_\_\_ 2. Today, the preferred method of inferring phylogeny is called
- taxonomy.
  - systematics.
  - cladistics.
  - morphology.
- \_\_\_\_\_ 3. Which of these led scientists to infer that birds evolved from dinosaurs?
- fossil evidence
  - family trees
  - parsimony
  - taxonomy
- \_\_\_\_\_ 4. When different kinds of organisms evolve with similar characteristics, it is called
- homologous evolution.
  - convergent evolution.
  - cladistics.
  - systematics.

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

- |                               |   |
|-------------------------------|---|
| _____ 5. analogous characters | a. practice of biological classification and identification |
| _____ 6. ancestral characters | b. based on shared derived characters                       |
| _____ 7. derived characters   | c. evolved in a common ancestor of two groups               |
| _____ 8. systematics          | d. based on similarities in structure                       |
| _____ 9. cladistics           | e. evolved in one group not another                         |
| _____ 10. phylogenetics       |   |