

### Using Key Terms

Use each of the following terms in a separate sentence.

1. *tectonic plate*
2. *erosion*
3. *radiation*
4. *ozone*
5. *salinity*

For each pair of terms, explain how the meanings of the terms differ.

6. *lithosphere* and *asthenosphere*
7. *conduction* and *convection*
8. *crust* and *mantle*
9. *closed system* and *open system*



#### STUDY TIP

**The Importance of Nouns** Most multiple-choice questions center around the definitions of nouns. When you study, pay attention to the definitions of nouns that appear to be important in the text. These nouns will often be boldfaced key terms or italicized secondary terms.

### Understanding Key Ideas

10. The thin layer at Earth's surface where life exists is called the
  - a. geosphere.
  - b. atmosphere.
  - c. hydrosphere.
  - d. biosphere.
11. The thin layer of the Earth upon which tectonic plates move around is called the
  - a. mantle.
  - b. asthenosphere.
  - c. lithosphere.
  - d. outer core.
12. Seventy-eight percent of Earth's atmosphere is made up of
  - a. oxygen.
  - b. hydrogen.
  - c. nitrogen.
  - d. carbon dioxide.
13. The ozone layer is located in the
  - a. stratosphere.
  - b. mesosphere.
  - c. thermosphere.
  - d. troposphere.
14. Convection is defined as the
  - a. transfer of energy across space.
  - b. direct transfer of energy.
  - c. trapping of heat near the Earth by gases.
  - d. transfer of heat by currents.
15. Which of the following gases is *not* a greenhouse gas?
  - a. water vapor
  - b. nitrogen
  - c. methane
  - d. carbon dioxide
16. Liquid water turns into gaseous water vapor in a process called
  - a. precipitation.
  - b. convection.
  - c. evaporation.
  - d. condensation.
17. Currents at the surface of the ocean are moved mostly by
  - a. heat.
  - b. wind.
  - c. salinity.
  - d. the mixing of warm and cold water.
18. Which of the following statements about the biosphere is *not* true?
  - a. The biosphere is a system closed to matter.
  - b. Energy enters the biosphere in the form of sunlight.
  - c. Nutrients in the biosphere must be continuously recycled.
  - d. Matter is constantly added to the biosphere.





