

Chapter 1 Biology practice test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_ 1. A squirrel and an oak tree are both examples of individual
- a. genes
  - b. organisms**
  - c. cells
  - d. ecosystems

*Organism is a living thing. Page 5*

- \_\_\_\_ 2. Life's basic unit of structure and function is the
- a. gene
  - b. cell**
  - c. organism
  - d. species

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- \_\_\_\_ 3. Each distinct form of life or type of organism is called a
- a. cell.
  - b. domain.
  - c. system.
  - d. species.**

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- \_\_\_\_ 4. Organizing similar species into larger groups is called
- a. natural selection
  - b. homeostasis
  - c. classification**
  - d. adaptation

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- \_\_\_\_ 5. Unlike the members of domains Bacteria and Archaea, the members of the domain Eukarya
- a. are unicellular
  - b. are very small
  - c. have nuclei**
  - d. are made of cells

*Eukaryotic cells contain nuclei that separate DNA from the rest of the cell. Page 9.*

- \_\_\_\_ 6. The process by which organisms keep their internal conditions relatively stable is called
- a. homeostasis**
  - b. evolution
  - c. reproduction
  - d. photosynthesis

*Homeostasis internal stability or steady state maintained by the body. Page 16*

\_\_\_\_ 7. What is the term for a localized group of organisms belonging to the same species?

- a. biosphere
- b. ecosystem
- c. population**
- d. environment

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\_\_\_\_ 8. Which list represents the levels of organization in a multicellular organism from the simplest level to the most complex level?

- a. tissue, cell, organ system
- b. organ system, organ, tissue, cell
- c. organ, tissue, organ system
- d. cell, tissue, organ, organ system**

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\_\_\_\_ 9. Which organizational level includes all of the other levels?

- a. biosphere**
- b. ecosystem
- c. organism
- d. cell

*The biosphere consists of all parts of the planet that are inhabited by living things.*

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\_\_\_\_ 10. Which of the following statements best explains why birds fly south for the winter?

- a. Living things respond to their environment.**
- b. Living things maintain internal balance.
- c. Living things are made of cells.
- d. Living things are based on a universal genetic code.

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\_\_\_\_ 11. An organ system is a group of organs that

- a. are made of similar cells.
- b. are made of similar tissues.
- c. work together in performing a major body function.**
- d. work together in performing all the functions in a multicellular organism.

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## Completion

Complete each sentence or statement.

12. **DNA** is the chemical responsible for inheritance – the passing on of traits from parent organisms to their offspring.

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13. Plants use water, carbon dioxide, and sunlight in the food-making process called **photosynthesis**.

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14. Cells without **nuclei** are called prokaryotic cells.

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15. **Heterotrophs or consumers** are organisms that eat food made by producers.

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16. An **adaptation** is an inherited trait that helps an organism survive and reproduce in its particular environment.

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