

Pretest: Living Systems

Read each question. Circle the letter of the correct answer.

1. What is the layer of air surrounding Earth called?
A. biosphere
B. geosphere
C. atmosphere
D. hydrosphere
2. Which discovery that pertains to all organisms was found with the use of microscopes?
A. multicellular
B. made of cells
C. different species
D. identical biochemically
3. Which of these is the basic unit of life?
A. atom
B. cell
C. DNA
D. species
4. What is the variety of life across the biosphere?
A. ecology
B. genomics
C. homeostasis
D. biodiversity
5. Which of these describes the levels of organization of an animal?
A. Tissues are composed of organs, which are composed of cells.
B. Organs are composed of cells, which are composed of tissues.
C. Organs are composed of tissues, which are composed of cells.
D. Tissues are composed of cells, which are composed of organs.
6. Which of these describes an individual living thing?
A. atoms
B. cell
C. species
D. organism
7. At all levels of life, what do related parts create when they interact to form a whole?
A. cell
B. system
C. species
D. biosphere
8. Which of these is the maintenance of constant internal conditions in an organism?
A. adaptation
B. homeostasis
C. negative feedback
D. structure specialization
9. What is a physical environment with different species that interact with one another and with nonliving things?
A. habitat
B. biosphere
C. ecosystem
D. adaptation
10. Which is the process by which all living things maintain a balance within their cells and with the environment?
A. growth
B. evolution
C. homeostasis
D. development

Name: _____

Date: _____

Unit 1

Unit Pretest

11. What is the substance that covers the majority of Earth's surface and also makes up the largest percentage of your cells?

- A.** water
- B.** carbon
- C.** hydrogen
- D.** nitrogen

12. What is a protein that detects a signal molecule and performs an action in response?

- A.** ligand
- B.** proton
- C.** vesicle
- D.** receptor

13. What is Lake Michigan a part of?

- A.** hydrosphere
- B.** atmosphere
- C.** geosphere
- D.** biosphere

14. Which of these comprises the parts of Earth that *biosphere* refers to?

- A.** living things
- B.** land masses
- C.** greater biodiversity
- D.** freshwater environments

15. Which of these describes the biosphere?

- A.** a group of living things that can interbreed to reproduce
- B.** all living things and the places on Earth where they are found
- C.** the variety of organisms on Earth or in a particular area of the biosphere
- D.** organisms interacting with each other and with nonliving things in a certain region