

# Structure and Function in Living Systems

Name: \_\_\_\_\_

## From Cells to Organisms

Period: \_\_\_\_\_

Use Chapter 4, Section 3 of your textbook to answer the questions below.

### From Cells to Organisms (p.130)

1. If an organism is multicellular, its cells work \_\_\_\_\_ .
- \_\_\_\_\_ 2. What are the four levels of organization for a multicellular organism?
  - a. cells, tissues, organs, bodies
  - b. cells, organs, organ systems, bodies
  - c. cells, tissues, organ systems, bodies
  - d. cells, tissues, organs, organ systems

### Cells: The First Level of Organization (p.130)

3. If a cell is specialized, that means it does a \_\_\_\_\_ job (function).
4. The job or activity that a cell does is called its \_\_\_\_\_ .
5. The way a cell is put together or arranged is called its \_\_\_\_\_ .
- \_\_\_\_\_ 6. Look at Figure 2. This shows part of a ...
  - a. cell
  - b. tissue
  - c. organ
  - d. organ system

7. What do heart muscle cells make the heart do?

\_\_\_\_\_

- \_\_\_\_\_ 8. Look at Figure 3. This shows some ...
  - a. cells
  - b. tissues
  - c. organs
  - d. organ systems

9. What is the function of the guard cells shown in Figure 3?

\_\_\_\_\_



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### Tissues: The Second Level of Organization (p.131)

10. A group of cells that work together is called a \_\_\_\_\_ .
- \_\_\_\_\_ 11. Look at Figure 4. This shows ...
  - a. a cell
  - b. some tissue
  - c. an organ
  - d. an organ system
- \_\_\_\_\_ 12. What are the four kinds of tissues that animals have?
  - a. transport, protective, ground, nerve
  - b. nerve, muscle, connective, protective
  - c. cardiac, digestive, brain, respiratory
  - d. cell, tissue, organ, organ system
13. The function of \_\_\_\_\_ tissue is to move water and food through a plant
14. The function of \_\_\_\_\_ tissue is to cover and protect a plant
15. \_\_\_\_\_ tissue is where photosynthesis takes place in a plant

*turn this page over for more questions*

