Chapter 7 Cell Structure and Function

Chapter Test B

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- ____ 1. Who was the first person to identify and see cells?
 - a. Anton van Leeuwenhoek
 - b. Robert Hooke
 - c. Matthias Schleiden
 - d. Rudolf Virchow
- 2. The thin, flexible barrier around a cell is called the
 - a. cell membrane.
 - b. cell wall.
 - c. cell envelope.
 - d. cytoplasm.
- 3. Prokaryotes lack
 - a. cytoplasm.
 - b. a cell membrane.
 - c. a nucleus.
 - d. genetic material.
- 4. Which of the following contains a nucleus?
 - a. prokaryotes
- c. eukaryotes
- b. bacteria
- d. organelles
- **5.** The main function of the cell wall is to
 - a. support and protect the cell.
 - b. store DNA.
 - c. direct the activities of the cell.
 - d. help the cell move.
- **6.** Which of the following is a function of the nucleus?
 - a. stores DNA
 - b. controls most of the cell's processes
 - c. contains the information needed to make proteins
 - d. all of the above
 - 7. Which of the following is a function of the cytoskeleton?
 - a. helps a cell keep its shape
 - b. contains DNA
 - c. surrounds the cell
 - d. helps make proteins

Name_		Class	Date
8.	Which of the following i cytoplasm?	s an organelle found in the	
	a. nucleolus	c. chromatin	
	b. ribosome	d. cell wall	
9.	Which organelle would you expect to find in plant cells?		
	a. mitochondrion	c. chloroplast	
	b. ribosome	d. smooth endoplasmic reticulum	
10.	boundary from its environal mitochondrion	tructures serves as the cell's onment?	
	b. cell membrane		
	c. chloroplast		
44	d. channel proteins		
11.	a. an area of low concentration.	•	
	b. an area of high concer concentration.	tration to an area of low	
	c. an area of equilibrium to an area of high concentration.		
	d. all of the above		
12.	The diffusion of water as membrane is called a. osmotic pressure.	cross a selectively permeable	
	b. osmosis.		
	c. facilitated diffusion.		
	d. active transport.		
13.	organism?	s having different tasks in an	
	a. multicellular	c. levels of organization	
	b. cell specialization	d. unicellular	
14.	. Which of the following i	s an example of an organ?	
	a. heart	c. digestive system	
	b. epithelial tissue	d. nerve cell	
15.	. A group of similar cells t called a(an)	hat perform a particular function is	
	a. organ.	c. tissue.	
	b. organ system.	d. division of labor.	

Using Science Skills

Use the diagrams below to answer the following questions on the lines provided.

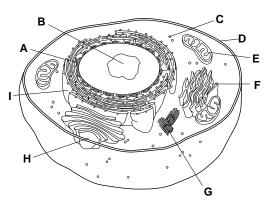


Figure 7-1



Diagram I

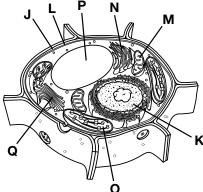


Diagram II

26. Interpreting Graphics Which drawing in Figure 7-1 contains a structure that captures sunlight and converts it into chemical energy? What is the name of the structure described, and what is it labeled in the diagram?

27. Comparing and Contrasting Look at Figure 7-1. Give the letter of the structure in drawing I that corresponds to structure M in

drawing II. What is the name of this structure?

- **28. Comparing and Contrasting** Give the letter of the structure in drawing I of Figure 7-1 that corresponds to structure L in drawing II. What is the name of this structure?

29. Interpreting Graphics Which organelle is labeled P in Figure 7-1? What is the function of this organelle?

30. Interpreting Graphics Do the drawings in Figure 7-1 represent prokaryotes or eukaryotes? How do you know?
