Structure and Function in Living Systems From Cells to Organisms

Name: Period:

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

From Cells to Organisms (p.130)	
If an organism is multicellular, its cells work	·
2. What are the four levels of organization for a a. cells, tissues, organs, bodiesb. cells, organs, organ systems, bodies	c. cells, tissues, organ systems, bodies
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 it	S
6. Look at Figure 2. This shows part of a a. cell b. tissue c. organ d. organ syster	m P V2
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 sy	stems
What is the function of the guard cells shown in Figu	re 3?
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. a	n organ system
12. What are the four kinds of tissues that anima a. transport, protective, ground, nerve b. nerve, muscle, connective, protective	als have? c. cardiac, digestive, brain, respiratory d. cell, tissue, organ, organ system
13. The function of tiss	ue is to move water and food through a plant
14. The function of tiss	ue is to cover and protect a plant
15 tissue is where pho	otosynthesis takes place in a plant

turn this page over for more questions

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Organs: The Third Level of Organ	ization (p.131)
16. A group of tissues that work toge	ether is called an
17. The	is an organ is made of cardiac, nerve, and blood vessel tissues.
18. Your stomach contains several t	ypes of
19. The	is a plant organ which has tissue that traps sunlight energy to make food.
Organ Systems: The Fourth Leve	l of Organization (p.132)
20. Any group of organs that work to	ogether is called an
21. The organs of the	system work together to move blood through the body.
	nt organs that are part of your digestive system: your and your
22. What are three organ sys a. leaf, root, stem b. respiratory, cardiovascula	c. transport, protective, ground
Organisms (p.132)	
23. The first level of organization in	a multicellular organism is a
24. A group of cells that do a specia	l job is called a
25. A group of tissues working toget	her are an
26. Groups of organs that work toge	ether to perform a specific function are an
27. Organ systems make up an	·
Unicellular Organization (p.133)	
28. A human is a unicellular organis	sm (True / False)
29. How does a unicellular or a. Many cells do many thing b. Many cells do one thing.	-
30. Is the organism in Figure 7 unic	ellular or multicellular?