Plant Structure and Function Chapter 2 Study Guide

Section 1: Vocabulary Write the word or words that make the statement correct.	Vocabulary List
1. A root's food is stored in the	xylem
2. Anything in the environment that produces a response is called	cortex
a(n)	root hairs
3. Threadlike parts of cells on the surface of a root are called	cambium
, -	adaptation
4. Something that helps an organism survive in its environment is	epidermis
called a(n)	tropism
E. The conduction of the close that the conduction the conduction the conduction that the conduction the conduction that the conduction the conduction that the conduc	transpiration
5. The part of the plant that separates the phloem from the xylem is the	stimulus
	photosynthesis
6. The outermost layer of a root, stem, or leaf is called a(n)	
··	
7. A plant bending or curving away from or toward a stimulus is called a	
8. The food-making process in plants is called	
9. The process where water evaporates from the leaves, and more water moves up through the plant to replace lost water is called	
10. Tissue through which water and minerals flow up through the plant is called a(n)	

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Section 2: Science Concepts Circle the letter of the best answer.

11. Which is not a function of	stems?
A. transpiration	C. water absorption
B. food storage	D. support
12. Food flows down from the	leaves of a plant through the
A. cortex	C. phloem
B. xylem	D. cambium
13. Sunlight, water, minerals,	and carbon dioxide are used by plants to make food.
Plant cells do this in parts call	ed
A. fungus	
B. chlorophyll	
C. bacterium	
D. chloroplasts	
14. Water and minerals flow ι	ıp a plant through the
A. cortex	C. cambium
B. xylem	D. phloem
15. Which statement is true?	
A. Both photosynthesis	s and respiration store energy.
B. Both photosynthesis	s and respiration release energy.
C. Photosynthesis rele	ases energy; respiration stores energy.
D. Photosynthesis stor	es energy; respiration releases energy.
16. Which part holds the trans	sportation system for plants?
A. xylem	C. stems
B. roots	D. leaves

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<u>Section 3: Science Process Skills</u> Answer each question using complete sentences.

17. Infer In wha	at kind of envi	ronment is a plant with aerial	roots likely to grow? Why?
Section 4: Usin Answer each q	_	oncepts g complete sentences.	
18. What are thr	ee adaptation	s that help plants survive wat	er shortages?
Section 5: Usin Complete the " Photosynthesis:	formulas" fo	and Charts r photosynthesis and respi	ration.
	_		<u>oxygen</u>
and		in the presence of	and ▶
carbon dioxide			
Terms:			
food (sugar)	water	chlorophyll	light energy

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food (sugar) water energy Write the correct tropism to label each diagram.	Respiration:				
oxygen and Terms: food (sugar) water energy Write the correct tropism to label each diagram.					carbon dioxide
Terms: food (sugar) water energy Write the correct tropism to label each diagram.	and	i			and
Terms: food (sugar) water energy Write the correct tropism to label each diagram.	oxyge	en			
food (sugar) water energy Write the correct tropism to label each diagram.					and
Write the correct tropism to label each diagram.	<u>Terms:</u>				
	food (sugar)	water	energy		
Terms: hydrotropism gravitropism phototropism thigmotropism	Write the co	errect tropism to	label each diagram	<u>l.</u>	
	Terms:	hydrotropism	gravitropism	phototropism	thigmotropism
lacksquare				-	