Cells and Heredity Chapter 2 Test

Name:_	 	 	
Date:	 	 	

- 1 What are the products of photosynthesis?
 - A carbon dioxide and water
 - B oxygen and water
 - C carbon dioxide and sugars
 - D oxygen and sugars
- 2 How does photosynthesis benefit heterotrophs?
 - A It adds carbon dioxide to the air.
 - B It creates food that they can eat.
 - C It eliminates harmful sugars.
 - D It creates clean water.
- 3 What happens during respiration?
 - A Oxygen is released into the air.
 - B Glucose is broken down, releasing energy.
 - C Carbohydrates are released into the bloodstream.
 - D Water and carbon dioxide are converted into energy.
- 4 Mitosis is the stage of the cell cycle during which
 - A the cell's nucleus divides into two new nuclei.
 - B the cell's DNA is replicated.
 - C the cell divides into two new cells.
 - D the cell's cytoplasm divides.
- 5 Carbon dioxide enters plants through the
 - A pigments.
 - B chloroplasts.
 - C chlorophyll.
 - D stomata.

6	During what stage of the cell cycle does replication occur?			
	A B C D	interphase cytokinesis prophase mitosis		
7	The regu	e regular cycle of growth and division that cells undergo is called		
	A B C D	replication. the cell cycle. interphase. mitosis.		
8	Under w	hich of the following conditions is lactic-acid fermentation most likely to occur?		
	A B C D	a very fast run a long walk sleeping playing video games		
9	What for	ms around the chromatids during mitosis?		
	A B C D	two new chromosomes two new nuclei two new cells two new DNA molecules		
10	What is	copied during replication?		
	A B C D	the cell's organelles chromosomes the cell's DNA two daughter cells		

11	The stage of respiration that releases most of the energy in glucose occurs in the					
	Α	nucleus.				
	В	chloroplast.				
	C	cytoplasm.				
	D	mitochondria.				
12	How are	photosynthesis and respiration related?				
	А	They have opposite equations.				
	В	They have the same equation.				
	C	They both produce carbon dioxide.				
	D	They both produce oxygen.				
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13	vvnat na	ppens during cytokinesis in animal cells?				
	А	A new round of mitosis begins.				
	В	Two new daughter cells are formed.				
	C	Each organelle divides into two parts.				
	D	A cell plate forms in the middle of the cell.				
14	What captures energy from sunlight during photosynthesis?					
17	vviiat ca	ptures energy from suringin during photosynthesis:				
	Α	solar cells				
	В	stomata				
	С	chlorophyll				
	D	carbohydrates				
	D	carbonydrates				
15	What are	What are chromatids?				
	Α	identical strands of chromosomes				
	В	identical daughter cells				
	С	doubled rods of centromeres				
	D	pigments that absorb the energy in sunlight				

- 16 The stage of the cell cycle that follows mitosis is called
 - A interphase.
 - B metaphase.
 - C cytokinesis.
 - D telophase.