Name:		Class:		Date: ID: A
Bio C	ell T	Test (Chapter 7)		
Multip Identify	le C	Choice (1 point each) e choice that best completes the statement or ansv	ver:	s the question.
 1	1.	a. endoplasmic reticulum	mat c. d.	27°-
	2.	cell can use?	cals	s to break down compounds into small particles that the endoplasmic reticulum
			d.	mitochondrion
	3.	a. Golgi apparatus	stru c. d.	- CPC
	4.	the cell to use? a. chloroplast	store c. d.	red in food into compounds that are more convenient for endoplasmic reticulum mitochondrion
	5.	 Which of the following is a function of the cell a. breaks down lipids, carbohydrates, and prob b. stores water, salt, proteins, and carbohydrate c. keeps the cell wall in place d. controls and regulates which materials ente 	tein tes	ns from foods
	6.	 Diffusion occurs because a. molecules constantly move and collide with b. the concentration of a solution is never the c. the concentration of a solution is always the d. molecules never move or collide with one a 	sam e sa	ne throughout a solution. ame throughout a solution.
	7.	a. water to move into the cell.	r (pi c. d.	
	8.	are these channels and pumps made of? a. proteins	s th c. d.	hat help move materials from one side to the other. What lipids carbohydrates
elitaria .	9.	 Unlike the cell membrane, the cell wall is a. usually made of tough fibers made of cellul b. composed of a lipid bilayer. c. a flexible barrier. d. found in the cells of all organisms. 	ose	that are rigid (not flexible).

	10.	When the concentration of molecules on both sides of a membrane is the same, the molecules will a. move across the membrane to the outside of the cell b. move across the membrane in both directions at the same relative speed c. move across the membrane to the inside of the cell d. stop moving across the membrane			
-212.5	11.	The main function of the cell wall in plants is to a. help the cell move c. direct the activities of the cell b. store DNA d. support and protect the cell			
	12.	During the process of osmosis, the net movement is of water is towards the solution that is a. hypotonic c. equaltonic b. hypertonic d. isotonic			
	13.	A term that is synonomous for <i>cell membrane</i> is a. plasma membrane c. nucleus b. cell wall d. cell transport			
Modif Indica	ied T	Frue/False (1 point each) Shether the statement is true or false. If false, change the identified word or phrase to make the statement tru			
	14.	<u>Tissues</u> are the "mini organs" of eukaryotic cells. They are components of eukaryotic cells that allow them become specialized for certain functions (to have jobs).			
	15.	Often, after a protein is made, it travels from the ribosome> through the endoplasmic reticulum> to mitochondria where it is modified and packaged for release/export through the cell membrane.			
Match	ing ((1 point each)			
		 Match the names of each type of cell transport with their description. a. Process in which part of the plasma membrane surrounds solid particles and takes them into the cell. b. Process by which particles/molecules move from a high concentration to a low 			
		 c. Process by which the plasma membrane of a cell surrounds liquid and takes it into the cell. d. Process by which a cell releases large amount of material (e.g. the release of 			
		 d. Process by which a cell releases large amount of material (e.g. the release of neurotransmitters). e. The diffusion of water across a selectively permeable membrane. 			
	16.	Pinocytosis			
	17.	Osmosis			
-4	18.	Exocytosis			
	19.	Phagocytosis			
,	20	Diffusion			

Short Answer (2 points each)

21.	Name at least two ways in which prokaryotes and eukaryotes differ? (2 points)
	a)
	b)
22.	Use the terms <u>high concentration</u> and <u>low concentration</u> to define diffusion. Then give an example of diffusion. Diagrams are encouraged.
23.	. A hypertonic salt solution has a higher concentration of solutes (dissolved substances) than a blood cell. U
	the term <u>osmosis</u> to explain what happens when a blood cell is placed in a hypertonic salt solution. Diagra are encouraged.
24.	One of the statements behind cell theory is that cells are the basic units of structure and function in living things. State the other two concepts behind cell theory.
	1,
	2
indicate:	. Would you expect skin cells to contain more or fewer mitochondria than muscle cells? Explain your answ
25	. Would you expect skin cens to contain more of rever interested that master contain your and
	•
26	. The cell membrane is classified as a <u>lipid bilayer</u> . Explain what that term means. Diagrams are encouraged

Other (2 points each)

USING SCIENCE SKILLS

A student put together the experimental setup shown below. The selectively permeable membrane is permeable to both types of solute molecules shown.

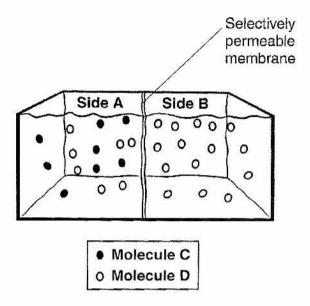


Figure 7-2

27. Interpreting Graphics

- a) What does the term selectively permeable membrane mean?
- b) Why are cell membranes considered sclectively permeable?
- 28. **Predicting** What will the apparatus shown in Figure 7-2 look like when equilibrium is reached? Diagrams are encouraged.