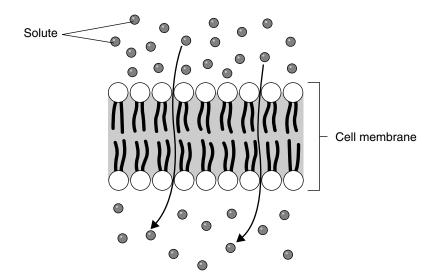
Se	ction 7–3 Cell Boundaries (pages 182–189)			
	s section describes the main functions of the cell membrane. It also lains what happens during diffusion and explains what osmosis is.			
Ce	ll Membrane (page 182)			
1.	What are the functions of the cell membrane?			
2.	The core of nearly all cell membranes is a double-layered sheet called a(an)			
3.	3. What is the difference in the function of the proteins and the carbohydrates attached to a cell membrane?			
	ll Walls (page 183) In what organisms are cell walls found?			
5.	Is the following sentence true or false? The cell wall lies inside the cell membrane.			
6.	What is the main function of the cell wall?			
7.	What are plant cell walls mostly made of?			
Di	ffusion Through Cell Boundaries (pages 183–184)			
8.	The cytoplasm of a cell is a solution of many different substances in			
9.	What is the concentration of a solution?			
10.	What is diffusion?			

Class_____

Date _____

Name_____

11. The molecules of solute in the illustration are moving through the cell membrane from top to bottom. Indicate with labels which side of the membrane has a high concentration of solute and which has a low concentration.



Osmosis (pages 185–186)

12. What does it mean that biological membranes are selectively permeable?

13. What is osmosis? _____

- 14. Is the following sentence true or false? Water tends to diffuse from a region where it is less concentrated to a region where it is highly concentrated.
- 15. When will water stop moving across a membrane?

Match the situation to the description.

Situation

- **16.** Two solutions are isotonic.
- _____ 17. A solution is hypertonic.
- **_____ 18.** A solution is hypotonic.

Description

- **a.** The solution is above strength in solute.
- **b.** The solutions are the same strength.
- **c.** The solution is below strength in solute.
- 19. On which side of a selectively permeable membrane does osmosis exert a pressure?

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Name		Class	Date	
	Diffusion (pag		n?	
21. What is th	e role of protein c	hannels in the cell membran	e?	
22. Is the following sentence true or false? Facilitated diffusion does not require the cell to use energy				
Active Tran	nsport (pages 188	:–189)		
-		ess that moves material acros	ss a cell membrane against a	
24. Is the follo	owing sentence tru	ue or false? Active transport a	lways requires transport proteins	
	e the table about ty	ypes of active transport.		
	T	YPES OF ACTIVE TRANSPO	PRT	
Туре	Description			
Endocytosis				
Phagocytosis				
Exocytosis				

26. During endocytosis, what happens to the pocket in the cell membrane when it breaks loose from the membrane?