		_ Class	Date			
-	ter 5: Homeostasis		-			
n the s r phras		er of the	description that best matches the term			
	1. plasmolysis		a. relatively low solute concentration			
	2. vesicle		b. membrane-bound organellec. uptake of large particles, solids			
	3. hypertonic		d. shrinking of cellse. uptake of solutes or fluids			
	4. concentration gradient		f. swelling or bursting of cells			
	5. cytolysis		g. concentration difference across spaceh. relatively high solute concentration			
	6. hypotonic		i. helps a cell rid itself of waste vacuolesj. double layer that makes up cell membra			
	7. phagocytosis		k. transports potassium ions into the cell			
	8. pinocytosis		1. transport of a specific substance down i concentration gradient by a carrier protein			
	9. sodium-potassium pump		m. solution should have no affect on a cel n. embedded in cell membrane; it transpo			
	10. isotonic		molecules into or out of the cell			
	11. facilitated diffusion					
	12. exocytosis					
	13. phospholipids					
	14. carrier protein					
ank, ar	nd then in the space provided, e	explain wh	e blank. If a statement is false, write F in the my the statement is false. diffusion requires energy in the form of ATP.			
16.	. When a solution is in equilibri	um, all m	ovement of its molecules stops.			
		s exert tu	rgor pressure on the inside of the cell wall.			
17.	In a plant cell, water molecule					

Name	Clas	S	Date	
	space provided, write the letter of statement or best answers each qu	•	nrase that best complete	es
	19. The process of diffusion requiresa. a cell membrane.b. an aqueous solution.c. a difference in the concentration.d. All of the above		s throughout a space.	
	 20. If the molecular concentration of substance a. has a large concentration grade b. is in equilibrium. c. will undergo diffusion. d. will undergo osmosis. 		he same throughout a spac	e, the
	 21. If the concentration of a sugar so cell, which of the following will a. Sugar will move into the cell. b. Water will move into the cell. c. Sugar will move out of the ced. d. Water will move out of the ced. 	happen by osmo		the
	22. A type of transport in which water concentration gradient isa. simple diffusion.b. facilitated diffusion.		usion through ion channels.	
	23. Net movement of water across a a. from a hypotonic solution to a b. from a hypertonic solution to c. from an isotonic solution to a d. through gated water channels.	a hypertonic sol a hypotonic sol nother isotonic	ution. ution.	
	24. All forms of passive transport depa. energy from the cell in the forb. the kinetic energy of moleculec. ion channels.d. carrier proteins.	m of ATP.		
	25. Plasmolysis of a human red blooda. in an isotonic solution.b. in a hypertonic solution.	c. in a	cur if the cell were hypotonic solution. e of the above	
	 26. A structure that can move excess a. carrier protein. b. contractile vacuole. c. ion channel. d. cell membrane pump. 	water out of ur	icellular organisms is a	

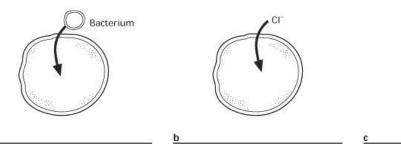
27. The diffusion of ions across the membrane is influenced by which of the
following?
a. the electrical charge of the ion
b. only the concentration gradient of the ion
c. the number of enzymes in the cell membrane
d. Both (a) and (c)
28. Which of the following is NOT a characteristic of active transport?
a. It moves substances against a concentration gradient.
b. It requires energy from the cell.
c. It involves facilitated diffusion.
d. It relies on carrier proteins that often function as pumps.
29. Diffusion is the movement of a substance
a. through only a lipid bilayer.
b. from an area of low concentration to an area of higher concentration.c. only in liquids.
d. from an area of high concentration to an area of lower concentration.
30. Molecules that are too large to be moved through the cell membrane can be transported into the cell by
a. osmosis. c. exocytosis.
b. endocytosis. d. diffusion.
 31. Sodium-potassium pumps a. move Na⁺ ions and K⁺ ions into cells. b. move Na⁺ ions and K⁺ ions out of cells. c. move Na⁺ ions out of cells and K⁺ ions into cells. d. move Na⁺ ions into cells and K⁺ ions out of cells.
ach question, and write your answer in the space provided.
ne three types of passive transport and three types of active transport.
scribe what would happen to the molecules in a drop of ink dropped into a beaker of er. What is this process called?
at is the fundamental difference between carrier proteins that participate in <i>facilitate</i>
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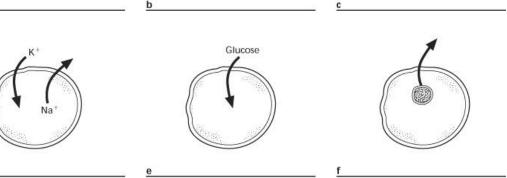
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Name	Ciass	Date	
35. Contrast endocytosis v	vith exocytosis.		

Extra Credit, Critical Thinking.

36. The diagrams below illustrate cells carrying out different types of transport across their cell membranes. Identify each process by writing the correct term in the blank below each diagram. Then answer the question.





g. Which of the above processes are active-transport processes?