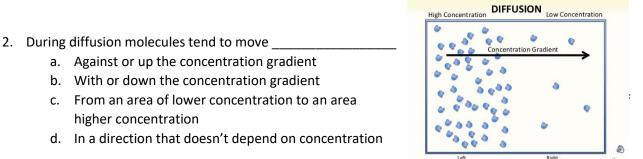
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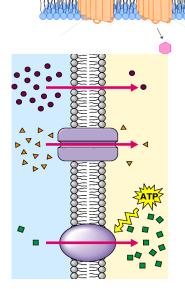
## **Cell Membrane and Transport Test Review - OL**

## Multiple choice: Circle the answer(s) that best completes the sentences

- 1. Which of the following is Not true about the cell membranes?
  - a. Cell membranes allow ALL substances to pass through easily
  - b. It is selectively permeable so only certain molecules can pass through it.
  - c. Cell membranes surround all animal, plant, and bacterial cells.
  - d. It is a bilayer composed mainly of phospholipids and proteins

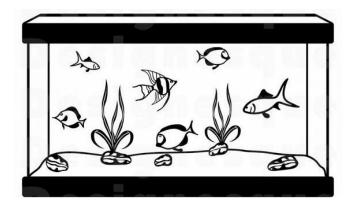


- 3. When the concentration of a solute is the same throughout a system, the system has reached
  - a. Maximum concentration
  - b. Equilibrium
  - c. Osmosis
  - d. Phagocytosis
- 4. Glucose enters a cell from high concentration to low concentration using a protein
  - a. Diffusion
  - b. Facilitated diffusion
  - c. Ion channels
  - d. Phagocytosis
- 5. Energy for active transport in the cell membrane is \_\_\_\_\_\_.
  - a. Chloroplast
  - b. ATP
  - c. Mitochondria
  - d. Glucose
- 6. All the following are kinds of passive transport EXCEPT \_\_\_\_\_
  - a. Diffusion
  - b. Facilitated diffusion
  - c. Osmosis
  - d. Active transport



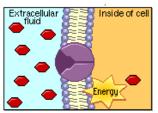
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7	ATD to make the same that the	
/.	stances across membranes.	

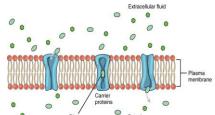
- a. Passive
- b. Active
- c. Facilitated
- d. Simple
- 8. Placing an animal cell in a saltwater solution will cause the water to \_\_\_\_\_\_
  - a. Move into the cell
  - b. Move out of the cell
  - c. Stays the same
  - d. Has no effect on the animal cell
- 9. Gases like oxygen and carbon dioxide move across the cell membrane using \_\_\_\_\_
  - a. Endocytosis
  - b. Ion channels
  - c. Diffusion
  - d. Facilitated diffusion
- 10. Which of the following is classified as Homeostasis?
  - a. When a person become sick and spike a fever
  - b. When it is cold outside, and a person put on a jacket
  - c. Touching a hot stove and you burn your hand
  - d. When a person is hungry, so they eat food
- 11. Johnny is a student in Aquatic Science, and he was given the responsibly of taking care of gobies (saltwater fish), however Johnny only has a freshwater tank at home. Why can't Johnny take home the guppies?
  - a. The gobies are too much responsibility for Johnny to handle
  - b. The gobies will lose water from their bodies and dehydrate
  - c. The gobies will not enjoy living in freshwater
  - d. The gobies will accumulate too much water in their bodies and will eventually die

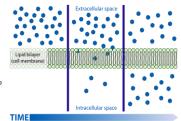


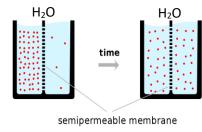
Name:	Date:	Period:		
Match the term with its correct description:				
	<ul><li>a. energy</li><li>b. facilitated diffusion</li><li>c. equilibrium</li><li>d. osmosis</li></ul>	<ul><li>e. active transport</li><li>f. channel protein</li><li>g. passive transport</li><li>h. diffusion</li></ul>		
6. Transport protein that provides an opening or doorway in the plasma membrane through which particles can diffuse				
7. Is used during active transport but not passive transport				
8. Particle movement from an area of higher concentration to an area of lower concentration				
9. A form of passive transport that uses transport proteins				
10. Particle movement from an area of lower concentration to an area of higher concentration				
11. The diffusion of water through a cell membrane				
12. The movement of substances through the cell membrane without the use of cellular energy				
13. When the molecules of one substance are spread evenly throughout another substance to become balanced				
Label the following as True or False:				
14. The cell membrane is the organelle that is involved with helping homeostasis.				
15. Semi permeable membrane and plasma membrane are other names for cell membrane.				
16. Gases, wastes, sugar, water and salts can pass directly through the membrane.				
17. Solute is the substances that does the dissolving.				
18. If concent to swell.	ration of solute is greater outside	the cell; water will enter the cell and cause the cell		
19. If concentration of solute is equal both outside and inside the cell, the cell is at equilibrium.				
20. If concentration of solute is greater inside the cell; water will enter the cell cause the cell to swell.				

Label the following diagrams below: Osmosis, facilitated diffusion, diffusion, active transport



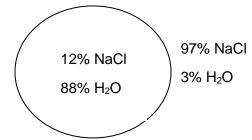






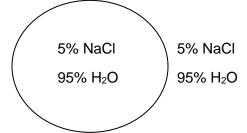
Osmosis is the diffusion of water from an area of high concentration to an area of low concentration. Only water moves in osmosis! The diagrams below show the concentration of water and salt inside the cell and the concentration of water and salt surrounding the cell. Complete the sentences below by comparing the concentration of the water inside the cell and the concentration outside the cell.

1.



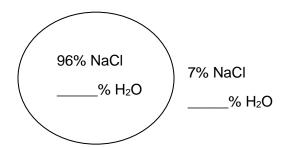
- a. Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- b. The cell will \_\_\_\_\_ (shrink, burst, stay the same).

2.



- a. Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- b. The cell will \_\_\_\_\_(shrink, burst, stay the same).

3.



- a. Water will flow \_\_\_\_\_ (into the cell, out of the cell, in both directions).
- b. The cell will \_\_\_\_\_\_(shrink, burst, stay the same).