

Name: _____ Date: _____

Cell Membrane Quiz

- _____ 1. If a molecule's concentration outside a cell is higher than it is inside the cell, that solution is _____.
- isotonic
 - hypotonic
 - hypertonic
 - none of the above
- _____ 2. If someone sprays perfume in one room, soon people in another room can smell it. Which of the following is this an example of?
- facilitated diffusion
 - osmosis
 - diffusion
 - active transport
- _____ 3. Molecules that can diffuse across a membrane include _____.
- many polar molecules
 - many nonpolar molecules
 - sugars
 - amino acids
- _____ 4. If the concentration of a sugar solution is lower outside the cell than inside the cell, which of the following will happen by osmosis?
- sugar will move into the cell
 - water will move into the cell
 - sugar will move out of the cell
 - water will move out of the cell
- _____ 5. When particles move out of a cell through facilitated diffusion, the cell _____.
- gains energy
 - uses energy
 - releases energy
 - does not use energy
6. Osmosis and diffusion are both examples of _____.
7. When the concentration of dissolved particles is the same throughout a solution, the system is said to be in _____.
8. Why can oxygen gas, O_2 , and carbon dioxide gas, CO_2 , move through the cell membrane?
9. Sketch a cell membrane including the phospholipid bilayer, all different types of proteins, cholesterol. Explain how this model is fluid and what the fluidity allows the membrane to do.