Name:_	Answer	Key		
Mod: ⁻	_	Date:		

Unit 7 - The Plasma Membrane Worksheet - Diffusion and Osmosis

Part I – Key Terms

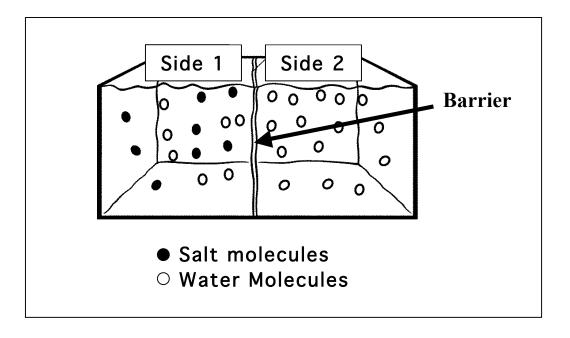
I.	Define the term diffusion :	high to low	
2.	What is osmosis ?	H ₂ O diffusion	high to low_

<u>Part 2</u> - Identify each solution below as isotonic, hypertonic or hypotonic. Then describe how the movement of water will affect the size and shape of the cell.

Membrane Water molecule Call Solution Sugar molecule	Solution:hypertonic Size and Shape: smaller, plasmolysis occurs
4. Membrane Water molecule Cail O O Salution Sugar molecule	Solution:hypotonic Size and Shape:larger, could burst *lysis*

5.	Solution: <u>isotonic</u>
Membrane O O O G Water molecule	Size and Shape: <u>no change</u>
Call O O Saiutian	

-OVER-



6.	Which side of the container has a <u>higher</u> concentration of salt molecules? side I					
7.	The membrane above is selectively permeable to both salt and water molecules. Define the term selectively (semi) permeable. allows some molecules to pass while others are blocked					
8.	. Given that both salt and water can cross the membrane, over time how will the concentration of molecules change in the diagram above?					
9.	What will the diagram look like when the molecules have reached equilibrium? equal numbers of light and dark molecules on each side					
10.	What process causes the molecules to move from side 1 to side 2?diffusion & osmosis					