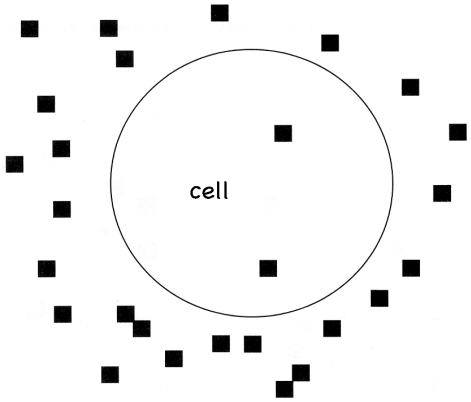
Name_____ Class_____ Date_____

Conceptual Biology

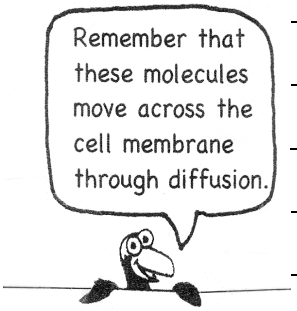
Chapter 4: How Cells Work

Diffusion and Osmosis



1. The molecules represented by squares move across the cell membrane through diffusion in the diagram on the right.

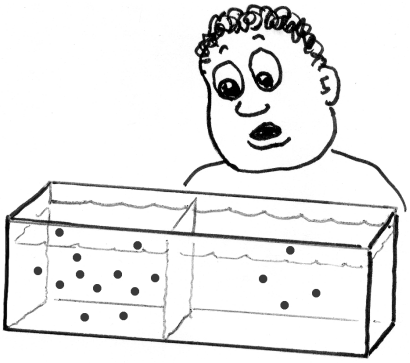
   Will there be a net movement of these molecules into the cell or out of the cell? Why?

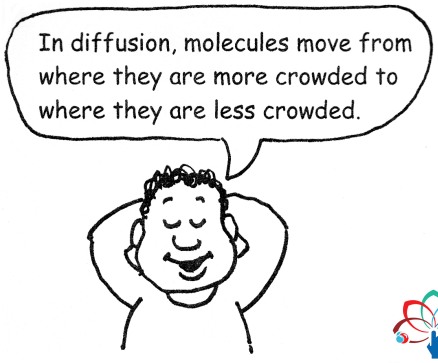


2. The diffusion of water has a special name.

   It is called _____.

   In the figure on the right, a membrane allows water to move freely between two compartments. The dark circles represent solute molecules, which are not able to move between the two compartments. Will water flow to the left or to the right? Why?





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Chapter 4: How Cells Work

Facilitated Diffusion and Active Transport

1. Which of these describes _____, and which describes _____?

   a. Does not require energy from the cell? _____

   b. Requires energy from the cell? _____

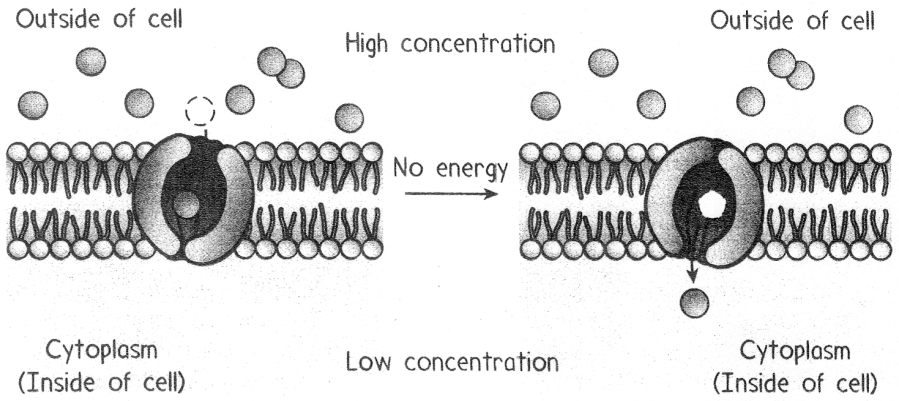
   c. Moves molecules from a region of low concentration to a region of high concentration?

   _____

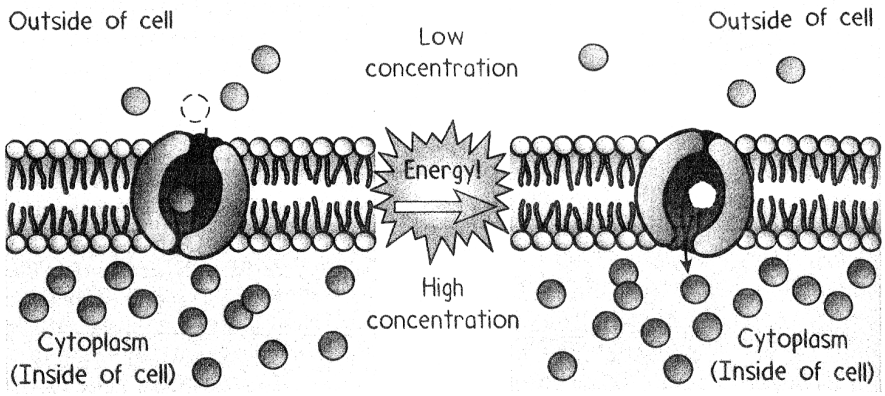
   d. Moves molecules from a region of high concentration to a region of low concentration?

   _____

2. Which of the following shows _____, and which shows _____?



   a. _____



   b. _____

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