Name: _____

Biology

BioFlix Study Sheet for Membrane Transport

Part I. Draw and then describe each type of membrane transport.

Kind of Membrane Transport	Drawing	Description
Diffusion		
Facilitated Diffusion		
Active Transport		
Exocytosis		
Endocytosis		

Part II. What is the difference between active transport and passive transport?

Part III. What are two kinds of passive transport? How are they similar and how are they different?

Part IV. How does water move across the plasma membrane?

Part V. How do gases such as oxygen and carbon dioxide move across the plasma membrane?

BioFlix Quiz - Membrane Transport

Write the answer to each question in the blank. Note that the order of the answer options does not match the online version of the quiz.

____1. In active transport,
A. no energy input is required from the cell.
B. molecules move across the plasma membrane against their concentration gradient.
C. a vesicle inside the cell fuses with the plasma membrane and releases its contents outside the cell.
D. the plasma membrane forms a pocket that pinches inward, forming a vesicle that contains material from outside the cell.
E. molecules move across the plasma membrane by crossing the lipid bilayer directly, rather than by using a transport protein.

____2. A molecule moves down its concentration gradient using a transport protein in the plasma membrane. This is an example of
A. diffusion.
B. exocytosis.
C. endocytosis.
D. active transport.
E. facilitated diffusion.

____3. Water crosses the plasma membrane
A. through cotransport.
B through active transport.
C. against its concentration gradient.
D through facilitated diffusion or diffusion.
E using a process that requires energy from the cell.

____4. The sodium-potassium pump uses energy from ATP to move sodium ions out of the cell, and potassium ions into the cell. This is an example of
A. diffusion.
B. exocytosis.
C. active transport.
D. passive transport.
E. facilitated diffusion.

____5. The plasma membrane forms a pocket that pinches inward, forming a vesicle that contains material from outside the cell. This describes the process of
A. diffusion.
B. exocytosis.
C. endocytosis.
D. active transport.
E. passive transport.