Name _____ Class_____Date_____

Assessment

Quiz

Section: Cell Transport

In the space provided, write the letter of the description that best matches each term.

_____ 1. osmosis

_____ 2. carrier protein

_____ 3. equilibrium

_____ 4. sodium-potassium pump

_____ 5. concentration gradient

_____ 6. diffusion

a. state that exists when the concentration of a substance is the same throughout a space

b. movement of particles from a region of higher concentration to a region of lower concentration

c. substance made of amino acids that moves substances across a cell membrane

d. substance that requires energy to transport sodium ions and potassium ions across a cell membrane

e. movement of water across a selectively permeable membrane from a region of higher concentration to a region of lower concentration

f. difference in concentration of a substance across a distance

In the space provided, write the letter of the response that best answers each question.

_____ 7. What is the difference between active transport and passive transport?
   a. Active transport requires energy, and passive transport does not.
   b. Active transport requires carrier proteins, and passive transport does not.
   c. Active transport moves substances down their concentration gradient, and passive transport does not.
   d. Both (a) and (c)

_____ 8. Why is osmosis important?
   a. to transport proteins across the cell membrane
   b. to aid the movement of large substances in and out of a cell
   c. to maintain the water balance in a cell
   d. All of the above

_____ 9. Which substances pass directly through the cell membrane?
   a. small, polar molecules
   b. small, nonpolar molecules
   c. sugars
   d. amino acids