copyright1Name Date Class



***Study Guide***

**CHAPTER 7**

**Section 4: Cellular Transport**

**In your textbook, read about cellular transport.**

*Match the definition in Column A with the term in Column B.*

**Column A**

**1.** moves small molecules across the plasma membrane  
using transport proteins

**2.** involves water moving across the plasma membrane  
to the side with the greater solute concentration

**3.** occurs when substances move against the concentration  
gradient; requires energy and the aid of carrier proteins

**4.** occurs when the plasma membrane surrounds a large  
substance inside the cell and moves it outside the cell

**5.** the condition that results when diffusion continues until  
the concentrations are the same in all areas

**6.** occurs when the plasma membrane surrounds a large  
substance outside the cell and moves it inside the cell

**Column B**

**A.** osmosis

**B.** exocytosis

**C.** facilitated diffusion

**D.** dynamic equilibrium

**E.** active transport

**F.** endocytosis

**In your textbook, read about osmosis.**

*Complete the table by checking the correct column(s) for each description.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Isotonic Solution** | **Hypotonic Solution** | **Hypertonic Solution** |
| **7.** A solution that has the same osmotic concentration as a cell’s cytoplasm |  |  |  |
| **8.** A solution that causes a cell to shrivel |  |  |  |
| **9.** A solution that causes a cell to swell |  |  |  |
| **10.** A solution that neither shrinks nor swells a cell |  |  |  |
| **11.** A solution in which there is more water outside the cell than inside the cell |  |  |  |
| **12.** A solution that causes water to move out of a cell |  |  |  |

**54** Cellular Structure and Function CHAPTER 7 Unit 2