NAME DATE CLASS

Chapter 3

STUDY GUIDE

Use with Text Pages 71–76

Cell Transport

Write the letter of the term that best completes each sentence.

_____ **1.** The passage of large molecules through the cell membrane into the cell is called _____ .
a. endocytosis **c.** passive transport
b. exocytosis **d.** osmosis

_____ **2.** Active transport always requires _____ .
a. water **c.** equilibrium
b. energy **d.** osmosis

_____ **3.** The movement of molecules from an area where there are many to where there are few is called _____.
a. diffusion **b.** equilibrium **c.** homeostasis **d.** transport

Check (✔) the statements that agree with the textbook. Rewrite the other statements so that they agree.

_____ **4.** The cell uses energy to transport glucose through the cell membrane.

_____ **5.** Proteins are transported by the Golgi bodies.

_____ **6.** Diffusion is a type of active transport.

_____ **7.** The cell membrane is selectively permeable.

_____ **8.** No energy is required for the movement of water molecules across the cell membrane.

_____ **9.** Osmosis is a type of passive transport involving elements such as calcium.

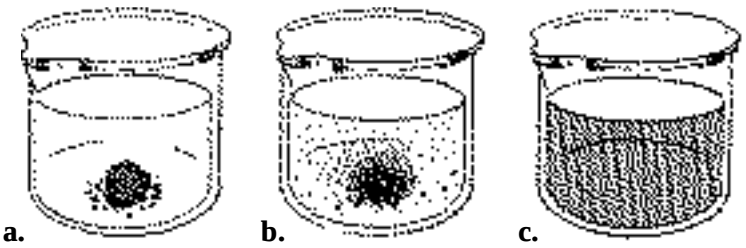
_____ **10.** In exocytosis, substances are released from the cell at the cell membrane.

_____ **11.** Carrier proteins are located in the cell membrane.

_____ **12.** Random movement of molecules stops once equilibrium is reached.

_____ **13.** Molecules tend to move into areas where there are more molecules.

Study the diagram below and answer the questions that follow.



a. **b.** **c.**

14. What process is taking place from diagram a to diagram c? _____

15. What state has been reached in diagram c?_____

16. Does this process require energy?_____

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