

REVIEW SHEET

Cell Membrane Transport Mechanisms

Name _____ Lab Time/Date _____

Choose all answers that apply to items 1 and 2, and place their letters on the response blanks.

1. The motion of molecules _____

- a. reflects the kinetic energy of molecules
 b. reflects the potential energy of molecules

- c. is ordered and predictable
 d. is random and erratic

2. The speed of molecular movement _____

- a. is higher in larger molecules
 b. is lower in larger molecules
 c. increases with increasing temperature

- d. decreases with increasing temperature
 e. reflects kinetic energy

3. What is the relationship between density of the medium and diffusion rate? _____

4. The following refer to Activity 2, "Observing Diffusion Through Nonliving Membranes":

Sac 1: 40% glucose suspended in distilled water

Did glucose pass out of the sac? _____ Test used to determine presence of glucose: _____

Did the sac weight change? _____ If so, explain the reason for its weight change: _____

Sac 2: 40% glucose suspended in 40% glucose

Was there net movement of glucose in either direction? _____

Explanation: _____

Did the sac weight change? _____ Explanation: _____

Sac 3: 10% NaCl suspended in distilled water

Was there net movement of NaCl out of the sac? _____

Test used to determine the presence of NaCl: _____

Direction of net osmosis: _____

Cell Membrane Transport Test Review Answers

Richard Bailey



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