

Name _____ Class _____ Date _____

SECTION 5-1 REVIEW

PASSIVE TRANSPORT

VOCABULARY REVIEW Explain the relationship between the terms in each of the following pairs of terms.

1. concentration gradient, diffusion _____

2. osmosis, turgor pressure _____

3. hypertonic, plasmolysis _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. Substances that can pass through cell membranes by diffusion include
a. Na^+ ions. b. Cl^- ions. c. glucose. d. oxygen.
- _____ 2. The contractile vacuole of a paramecium should be active when the paramecium is in
a. an isotonic environment. c. a hypertonic environment.
b. a hypotonic environment. d. any environment.
- _____ 3. When a human red blood cell is placed in a hypotonic environment, it will
a. undergo cytolysis. c. experience a decrease in turgor pressure.
b. undergo plasmolysis. d. be at equilibrium.
- _____ 4. Facilitated diffusion is often used to transport
a. ions. c. molecules that are not soluble in lipids.
b. water. d. molecules that are too small to diffuse across the membrane.
- _____ 5. Na^+ ions enter cells by
a. diffusing across the lipid bilayer without assistance. c. binding to Na^+ carrier proteins.
b. diffusing through Na^+ ion channels. d. binding to Cl^- ions.

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