Name	Date	Period

CELL TRANSPORT REVIEW Cell transport – Movement of molecules in and out of the cell

Match	the	definition	on	the	left	with	the	term	on	the	right	t.
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- Large wastes or cell products are released from inside to outside a cell
 Diffusion of water molecules through a selectively permeable membrane.
 The transport of particles which requires the use of energy
 A state reached when particles continue to move but in equal amounts in and out of the cell.
 Large particles are surrounded by the membrane and taken into the cell.
 Movement of any particles from an area of higher concentration to one of lower concentration, with the concentration gradient.
- a. Passive transport
 - b. Diffusion
- c. Dynamic equilibrium
 - d. Exocytosis
 - e. Osmosis
 - f. Active transport
 - g. Endocytosis

Circle the word or phrase that best completes the statement or answers the question.

8. The structure most responsible for maintaining cell homeostasis is the

7. _____ The transport of particles which **does not require energy**

cytoplasm cell wall mitochondria

plasma membrane

9. The plasma membrane (cell membrane) is made up of a(n)

cholesterol layer enzyme layer phospholipid bilayer

protein layer

10. Which of the following is NOT a form of passive transport?

facilitated diffusion diffusion endocytosis osmosis

11. Diffusion continues until

equilibrium is reached turgor pressure is reached

one side has more

12. If a cell is placed in salt water, *water* leaves the cell by

osmosis diffusion

active transport

phagocytosis

13. A cell moves particles from a region of low concentration to a region of high concentration by

facilitated diffusion

osmosis

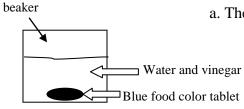
passive transport

active transport

For each scenario, answer the questions and draw an ARROW to illustrate the movement of molecules.

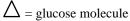
14. Easter egg coloring:

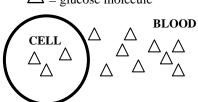
A blue food coloring tablet is placed in a cup of vinegar and water. After several seconds, the blue tablet will begin to dissolve and will eventually spread evenly throughout the liquid.



- a. The blue dye is traveling from a _____ to a ____ concentration.
 - b. Identify the type of transport illustrated in this scenario:
 - c. Does this movement of particles require energy?

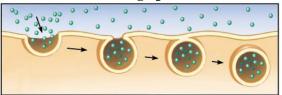
15. Following the digestion of food:





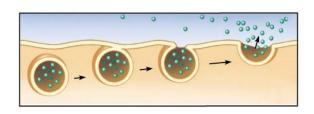
- a. Where is the higher concentration of glucose blood or cell? _____
- b. Glucose travels through helper proteins in the cell membrane. Identify this specific type of cell transport:
- c. Is this active or passive transport?
- d. Use an arrow to illustrate the movement of glucose molecules.

16. Movement of large particles into the cell:



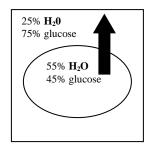
- a. Identify the specific type of transport being illustrated:
- b. How are the molecules being moved?
 _____ concentration → _____ concentration
- c. Does this require energy?

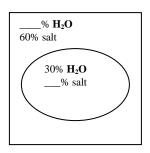
17. Movement of large particles out of the cell:

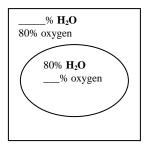


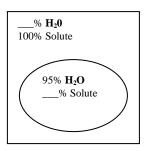
- a. Identify the specific type of transport being illustrated:
- b. Is this active or passive transport?
- c. What type of substances would be moved in this way?

18. For the boxes seen below, do the calculations (each environment must equal 100%), draw an ARROW to illustrate the direction of water movement. State whether the solution is hypertonic, hypotonic, or isotonic.









Water leaves cell. Cell shrinks. Hypertonic solution

OSMOSIS

