Name	Dato	Dariad
name	Date	Period

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

Match the definiti	on on the left	with the	term on	the right.
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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

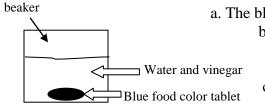
13. A cell moves particles from a region of *low concentration to a region of high concentration* by

facilitated diffusion osmosis passive transport active transport

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

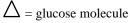
14. Easter egg coloring:

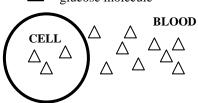
A blue food coloring tablet is placed in a cup of vinegar and water. After several seconds, the blue tablet will begin to dissolve and will eventually spread evenly throughout the liquid.



- 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?

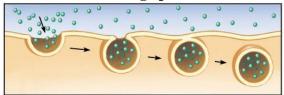
15. Following the digestion of food:





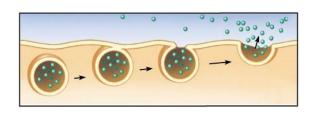
- a. Where is the higher concentration of glucose blood or cell? _____
- b. Glucose travels through helper proteins in the cell membrane. Identify this specific type of cell transport:
- c. Is this active or passive transport?
- d. Use an arrow to illustrate the movement of glucose molecules.

16. Movement of large particles into the cell:



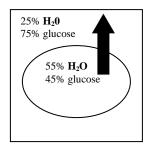
- a. Identify the specific type of transport being illustrated:
- b. How are the molecules being moved?
 _____ concentration → _____ concentration
- c. Does this require energy?

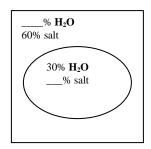
17. Movement of large particles out of the cell:

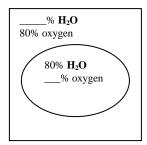


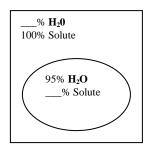
- a. Identify the specific type of transport being illustrated:
- b. Is this active or passive transport?
- c. What type of substances would be moved in this way?

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

