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CELL TRANSPORT

Cell transport - Movement of molecules in and out of the cell

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

1.	Large wastes or cell products are released from inside to outside a cell	a. Passive transport
2.	Diffusion of <i>water molecules</i> through a selectively permeable membrane.	b. Diffusion
3.	The transport of particles which requires the use of energy	c. Dynamic equilibrium
4.	A state reached when particles continue to move but in <i>equal amounts</i> in and out of the cell.	d. Exocytosis
5.	Large particles are surrounded by the membrane and taken into the cell .	e. Osmosis
6.	Movement of any particles from an area of <i>higher</i> concentration to one of <i>lower</i> concentration, with the concentration gradient.	f. Active transport g. Endocytosis
7.	The transport of particles which does not require energy	

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

8. The structure most resp cytoplasm	onsible for maintaining cell wall	cell homeostasis is the mitochondria	plasma membrane		
9. The plasma membrane cholesterol layer	(cell membrane) is mad enzyme layer	e up of a(n) phospholipid bilayer	protein layer		
10. Which of the following facilitated diffusion	is NOT a form of passi diffusion	ve transport? endocytosis	osmosis		
11. Diffusion continues until equilibrium is reachedturgor pressure is reachedone side has more					
12. If a cell is placed in salt water, water leaves the cell by osmosisphagocytosisdiffusionactive transportphagocytosis					

13. A cell moves particles from a region of low concentration to a region of high concentration byfacilitated diffusionosmosispassive transportactive transport

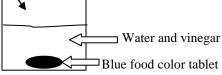
For each scenario, answer the questions and draw an ARROW to illustrate the movement of molecules.

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.

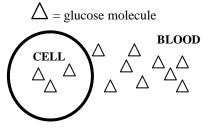
beaker

a. The blue dye is traveling from a ______ to a _____ concentration.b. Identify the type of transport illustrated in this scenario:



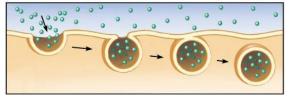
c. Does this movement of particles require energy?

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*:

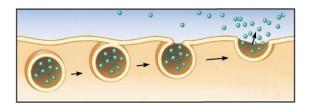


a. Identify the specific type of transport being illustrated:

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.

