

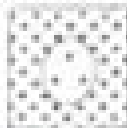
Cellular Transport Worksheet

Answer the following questions using your notes and your textbook.

OSMOSIS - Write the correct type of solution (isotonic, hypertonic, or hypotonic)



1. hypotonic



2. hypertonic



3. isotonic

4. hypertonic tonic

there is a **GREATER** concentration of solute molecules **OUTSIDE** the cell than inside.

1. hypotonic tonic

there is a **LOWER** concentration of solute molecules **OUTSIDE** the cell than inside.

4. isotonic tonic

there is the **SAME** concentration of solute molecules outside the cell as inside.



Cells swell and burst

7. The **SWELLING AND BURSTING** of animal cells when water enters happens when a cell is placed in a hypotonic tonic solution.

8. What organelle (that plants have that animals don't) keeps plant cells from bursting in this condition? cell wall

9. The **SHRINKING** of plant cells when water leaves so the cell membrane pulls away from the cell wall or shriveling of animal cells happens when a plant cell is placed into a hypertonic tonic solution.



Cells shrink

10. Cells stay the same size when placed in an iso tonic solution because the amount of water leaving the cell is the same and the amount of water entering.

MULTIPLE CHOICE Circle the letter that best completes the sentence.

1. The substance that dissolves to make a solution is called the _____
A. solvent B. solute C. solute D. concentration

1. During diffusion molecules tend to move _____
A. up / against the concentration gradient
B. from an area of lower concentration to an area of higher concentration
C. down / with the concentration gradient
D. in a direction that doesn't depend on concentration

2. When the concentration of solute inside & outside a cell is the same, the cell has reached _____.
A. maximum concentration
B. homeostasis
C. osmotic pressure
D. dynamic equilibrium

4. The diffusion of water across a selectively permeable membrane is called _____.
A. active transport
B. facilitated diffusion
C. osmosis
D. phagocytosis

5. Energy for active transport comes from a cell's _____.
A. Golgi complex
B. nucleus
C. mitochondria
D. lysosomes

6. _____ transport requires energy from ATP to move substances across membranes.
A. Passive
B. Active

7. All of the following are kinds of passive transport EXCEPT _____.
A. Diffusion
B. facilitated diffusion
C. ion channels
D. osmosis

8. When molecules move **DOWN** the concentration gradient it means they're moving from _____.
A. an area of low concentration to an area of higher concentration
B. an area of high concentration to an area of lower concentration

Fill-In - Complete the transport terms. Some of the letters have been filled in!

- Active transport requires E N E R G Y to move molecules across membranes.
- A T P is the molecule that provides the energy for active transport.
- D I F F U S I O N moves oxygen and carbon dioxide molecules from a high concentration to a low concentration across membranes.
- The cell organelles that burn glucose and provides ATP for active transport are the M I T O C H O N D R I A.
- Water moves across membranes by O S M O S I S.
- A small membrane sac used to transport substances during exocytosis & endocytosis.
= V E S I C L E vesicles would also work, but it's the best in the options
- P A S S I V E transport does NOT require energy.
- A cell placed in an I S O T O N I C solution neither swells or shrinks because the concentration of molecules outside the cell is the same as inside.
- A solution in which there is a **HIGHER** concentration of molecules **OUTSIDE** the cell than inside = H Y P E R T O N I C
- A **CONCENTRATION** G R A D I E N T forms whenever there is a difference in concentration between one place and another.
- A solution in which the concentration of molecules outside the cell is **LOWER** than inside = H Y P O T O N I C
- When molecules move from high to low along a concentration gradient we say they are moving "D O W N" the gradient.

Transport In Cells Packet Answer Key

CO Houle



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