MULTIPLE CHOICE: Circle and/or fill-in the answer(s) that best completes the sentence. I. The substance that dissolves to make a solution is called the A. diffuser B. solvent C. solute D. concentrate 2. 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 D. in a direction that doesn't depend on concentration	INKING the cell w a The sar ay the sar ag the cel	6. tonic there is the SAME concentration of solute molecules outside the cell as inside. 7. The SWELLING AND BURSTING of animal cells when water enters happens when a cell is placed in a hap	1. 1. 2. hyper 3. 150 4. Hyper tonic there is a GREATER concentration of solute molecules OUTSIDE the cell than inside. 5. Hyper tonic there is a LOWER concentration of solute molecules OUTSIDE the cell than inside.	OSMOSIS - Write the correct type of solution underneath (isotonic, hypertonic, or hypotonic)	Name, Date, Hr/Per Cellular Transport Worksheet Answer the following questions using your notes and your textbook.
Solution in which there is a HIGHER concentration of molecules OUTSIDE the cell than inside = H + P = C + D + C + C + C + C + C + C + C + C +	concentration to a low concentration across membranes. 4. The cell organelles that burns glucose and provides ATP for active transport are the M L L L L R P A L L L S. 5. Water moves across membranes by O S. 6. A small membrane sac used to transport substances during exocytosis & endocytosis 7. P S L L L L 7. P S L L L L 8. A cell placed in an I S L L L S. 8. A cell placed in an I S L L L S. 9. Solution neither swells or shrinks because the	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-Ins – Complete the transport terms. Some of the letters have been filled in! 1. Active transport requires _E_M_C_f_q_\subseteq to move molecules across membranes. 2A_f_f_is the molecule that provides the energy for active transport.	6	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 C. mitochondria D. lysosomes	3. 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

wall. $\bar{\omega}$ $0.5 \, mo$ $\pm 1.5 \, c$ pressure is caused by water inside a plant cell pushing against the cell















 \triangleright

the dividing membrane, what will happen? 2. If the solute (dots) in this diagram is unable to pass through A the water level will rise on the right side of the tube

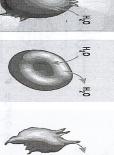
B. the water level will rise on the left side of the tube C. the water level will stay equal on the two sides

Match the description with the solution type:

B. Hypertonic C. Hypotonic ω 4. 7 0 5 solution with a high water concentration, solution with a higher solute concentration (less water) red blood cell bursts (cytolysis) condition that animal cells require condition plant cells require solution in which the solute concentration is the same solution with a lower solute concentration (more water) plant cells shrink (plasmolysis)

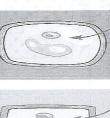
Pay close attention to the arrows!!! Label the tonicity for each solution (isotonic, hypotonic, or hypertonic): Doutside

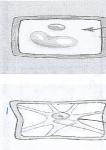
2











Examine the pictures on the bottom of the left side of this page.

What [if anything] is different about the plant and animal cells in each of these states?

State	Animal Cell	Plant Cell
Hypertonic	Shrinks	Shrinks
Isotonic	no change	nu change
Hypotonic	Swells & bursts Swells	Swells

Matching - Match each term to its definition

a: energy

b. facilitated diffusion

c. endocytosis

d. passive transport

e. active transport

f. exocytosis g. protein ion pump

hy channel protein

1. Transport protein that provides a tubelike opening in the plasma membrane through which particles can diffuse

2. Is used during active transport but not passive transport 3. Process by which a cell takes in material by forming a vacuole around it

4. Particle movement from an area of higher concentration to an area of lower concentration

5. Process by which a cell expels wastes from a vacuole

 \geq 6. A form of passive transport that uses transport proteins $\mathcal{J}.$ Particle movement from an area of lower concentration to an area of higher concentration

8. Transport protein that changes shape when a particle binds

Short Answer –

1. Name two factors that affect the rate of diffusion Spadient Concentration