

Cells, Tissues, Organs and Systems  
Assignment #5- Diffusion and Osmosis

NAME: \_\_\_\_\_

Date Due: \_\_\_\_\_

1. What is diffusion?

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2. Define each of the following:

a. Impermeable- \_\_\_\_\_

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b. Permeable- \_\_\_\_\_

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c. Selectively permeable- \_\_\_\_\_

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3. Why are the pores in the cell membrane of different sizes?

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4. What is osmosis?

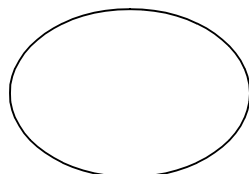
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5. Osmosis only refers to the diffusion of \_\_\_\_\_.

6. Make the following diagram show that there is a higher concentration of water outside than inside the cell. (o= water molecules and + = protein molecules)



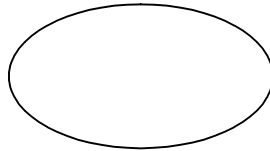
7. What is the difference between a solute and a solvent?

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8. Make the following diagram show that the concentration of solutes outside the cell is greater than inside the cell. (o= water molecules and + = protein molecules)



9. Will water want to move in or out of the cell in question #8?

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10. What is turgor pressure?

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11. Why do plants wilt?

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12. What prevents a plant cell from bursting when it is full of water?

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13. Why do grocery stores have misters that spray their produce?

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- Not completed on due date
- Answers lacked effort and/or knowledge
- Shows little understanding of diffusion and osmosis, more studying is needed
- Many or all questions must be redone #'s \_\_\_\_\_
- Parent signature required or receive 0. 50% with a parent signature and redone

- Completed with accuracy
- More explanation needed for some answers
- Shows good understanding of diffusion and osmosis
- More** or a **better** explanation is needed for questions #'s \_\_\_\_\_

- Completed with detail
- Excellent explanations given
- Shows excellent understanding of diffusion and osmosis
- Little** or **no** further explanation is needed  
Fine tune questions #'s \_\_\_\_\_

X \_\_\_\_\_