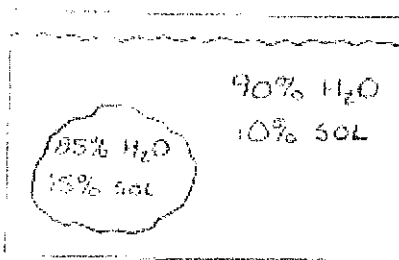


## PASSIVE TRANSPORT REVIEW WORKSHEET

1. \_\_\_\_\_ is the process by which molecules move from an area of higher concentration to an area of lesser concentration.
2. Osmosis refers specifically to the diffusion of \_\_\_\_\_.
3. The difference in the concentration of molecules across a space is called a \_\_\_\_\_.
4. When the concentration of solutes outside the cell equals the concentration of solutes inside the cell, the environment is said to be \_\_\_\_\_.
5. A solution that contains 15% solutes is \_\_\_\_\_% water.

6.

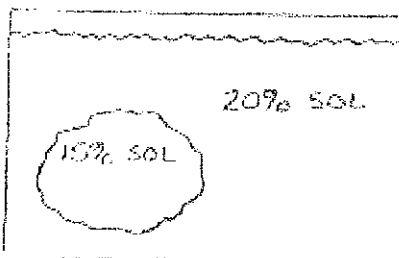


The environment is \_\_\_\_\_ tonic.

The cell is \_\_\_\_\_ tonic.

Water will move \_\_\_\_\_ the cell.

7.

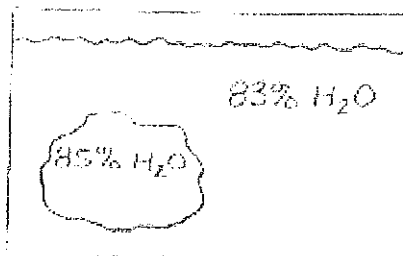


The environment is \_\_\_\_\_ tonic.

The cell is \_\_\_\_\_ tonic.

Water will move \_\_\_\_\_ the cell.

8.



The environment is \_\_\_\_\_ tonic.

The cell is \_\_\_\_\_ tonic.

Water will move \_\_\_\_\_ the cell.

9. A cell containing 15% solutes is placed in a solution that is 12% solutes.

The environment is \_\_\_\_\_ tonic. The cell is \_\_\_\_\_ tonic.

Water will move \_\_\_\_\_ the cell.

The environment is \_\_\_\_\_ tonic. The cell is \_\_\_\_\_ tonic.

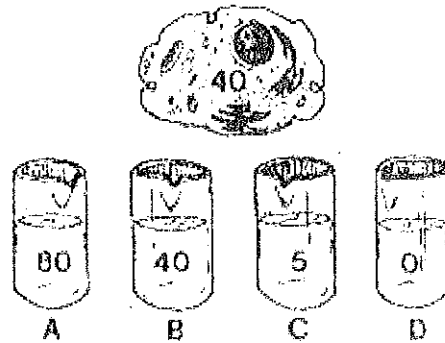
Water will move \_\_\_\_\_ the cell.

11. A cell with high turgor pressure is probably in a \_\_\_\_\_ tonic environment.

12. Examine the diagram to the right.

Solution \_\_\_\_\_ is isotonic relative to the cell.

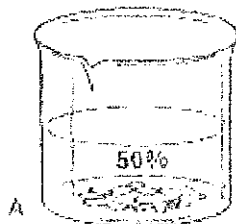
Concentration of Solute Molecules  
In a Cell and Four Beakers



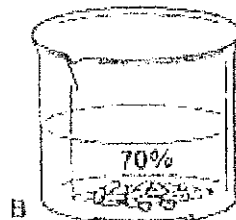
13. Examine the diagram to the right.

The cell would be most likely to lose water if it were placed in solution \_\_\_\_\_.

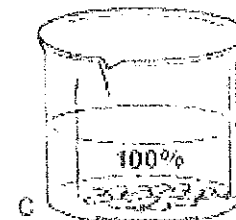
The cytosol of *Anacharis* cells is composed of 70% water molecules and 30% solutes.



*Anacharis* cells are put into a solution that is 50% water.



*Anacharis* cells are put into a solution that is 70% water.



*Anacharis* cells are put into 100% water.

*Anacharis* cells

14. The concentration of water in the *Anacharis* cells and their environment is the same in beaker \_\_\_\_\_.

15. The concentration of water in the *Anacharis* cells is higher than the environment in beaker \_\_\_\_\_.

16. The *Anacharis* cells will shrink in beaker \_\_\_\_\_.

17. The *Anacharis* cells will swell in beaker \_\_\_\_\_.

18. The *Anacharis* cells will remain the same size in beaker \_\_\_\_\_.