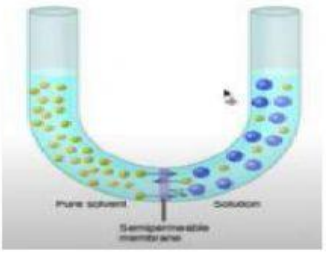
Topic 2.8 – Tonicity & Osmoregulation video notes

1. What is osmosis? _____
2. Explain in your own words what osmoregulation means. _____
3. What determines the overall movement of water? _____



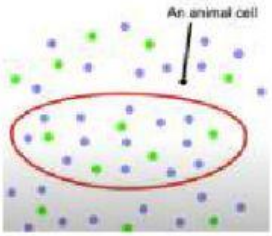
4. What happens in the diagram to the right? _____
5. Why does this happen? _____
6. Water will _____ solutes.
7. What is tonicity? _____

   What does it depend upon? _____

8. If an animal cell is in an isotonic environment, _____

Water out = _____ Concentrations are _____

9. Explain what is occurring in the following cell.



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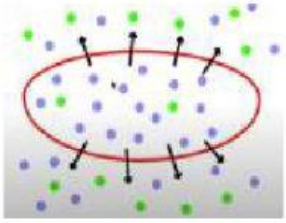
10. If an animal cell is in a hypertonic environment, _____

- Solute concentration outside out of the cell is _____ than the solute concentration on the _____ of the cell.

- Water concentration on the outside of the cell is _____ than the water concentration on the _____ of the cell.

11. Explain what is occurring with the following cell.

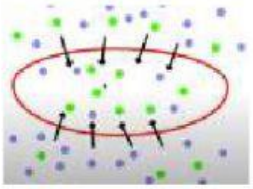


12. If an animal cell is in a hypotonic environment, _____

- Solute concentrate is _____ than the solute concentration on the _____ of the cell.

- Water concentration outside of the cell is _____ than water concentration on the inside of the cell.

13. Explain what is occurring with the following cell.



14. How can you remember the difference between a hypertonic and hypotonic solution?

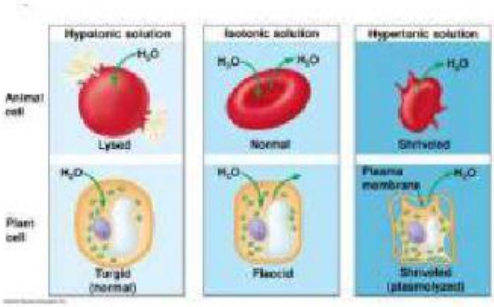
15. Cells without cell walls _____

- Cells with cell walls _____

Why is this so? _____

How are trees able to stand up? _____

What causes plant cells to wilt? _____



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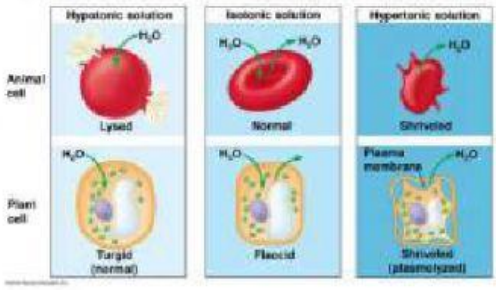
16. What does plasmolysed mean? _____

- What does flaccid mean? _____

- What does turgid mean? _____

17. What happens if an animal cell is in a hypertonic solution?

18. What happens if an animal cell is in a hypotonic solution?



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