

Osmosis Questions

1. What process is responsible for the uptake of minerals in a plant?
2. Name the process responsible for the entry of water into a plant.
3. Explain how water enters the plant at the root hair.
4. By what process do minerals enter a plant?
5. What is osmosis?
6. Water enters the outermost cells of the root by osmosis. What does this tell you about the cell sap of these outermost cells?
7. Describe how minerals such as nitrates enter the root of a plant from the soil.
8. Osmosis has been described as a special case of diffusion. Explain why.
9. Water enters the roots of plants by osmosis. Explain what is meant by osmosis.
10. What is meant by osmoregulation?
11. Where precisely does water enter a plant?
12. In which tissue does water ascend through the plant?
13. Define the term *osmosis*
14. Give an example of osmosis in plants.
15. By what **process** does water enter a plant?
16. In relation to membranes in cells, explain what is meant by *selective permeability*
17. What is diffusion? In the case of a named molecule, give a precise location at which it diffuses in the human body.
18. Explain the biological basis for the use of high sugar or high salt concentrations in the preservation of food.
19. The cell membrane is described as being selectively permeable. What does this mean?
20. Why is diffusion alternatively known as passive transport?
21. Osmosis may be described as “a special case of diffusion”. Explain why.
22. Describe, with the aid of a labelled diagram, how you demonstrated osmosis in the laboratory.
23. Name the structure by which Amoeba gets rid of excess water that has entered by osmosis.