

Homework - 02

Q1) Why does the plant cell, placed in a ~~to~~ hypertonic solution, not burst?

⇒ plant cells have a cell wall around the outside that stops them from bursting. So a plant cell will swell up in a hypotonic solution, but will not burst.

Q2) What happens when a fully turgid plant cell is placed in a ~~of~~ hypertonic solution? Name the ~~phenomenon~~ phenomenon.

⇒ If a plant cell is kept in a solution more concentrated than the cell sap, water moves out to outside solution. Loss of water causes the vacuole to shrink and pull the ~~plasma~~ plasma membrane with the cell contents away from the cell wall. This ~~phenomenon~~ phenomenon is known as plasmolysis.