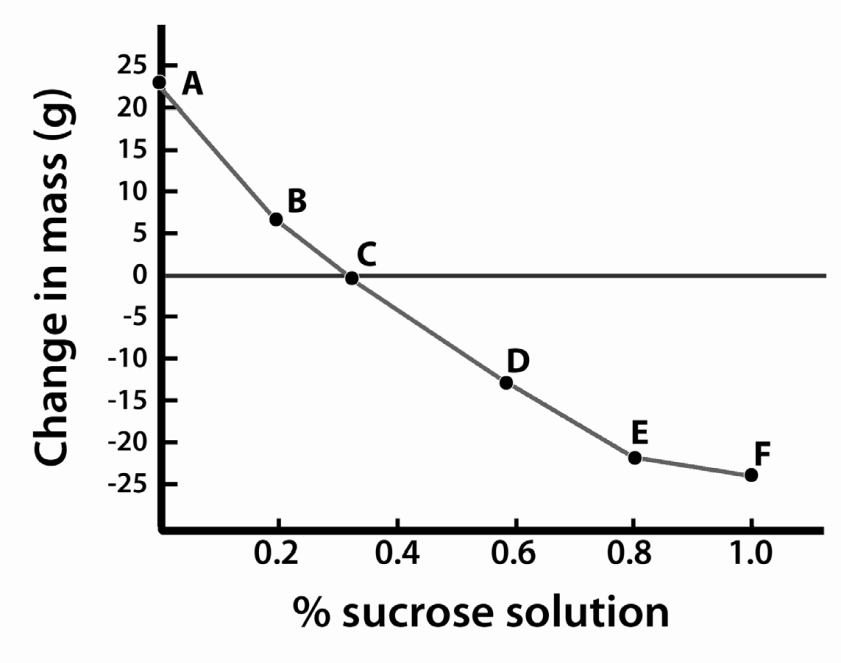
Q 2015 5

1. In an experiment, a student cut some potatoes into small, evenly-shaped pieces.

She divided them into groups of 10, weighed each group and placed them in sucrose solutions of different concentration, labelled A to F. Two hours later, she removed the potato pieces from the sucrose solutions, dried them and reweighed them. She plotted her results on a graph (change in mass versus % sucrose solution). The graph is shown below.



* 1. From the graph, determine the concentration of the contents of the potato cells.
  2. Explain in detail why the pieces in solutions D to F lost mass.
  3. Give **one** example of the use of the mechanism(s) described in (b) in food preservation.
  4. Explain how plant cells remain turgid.

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