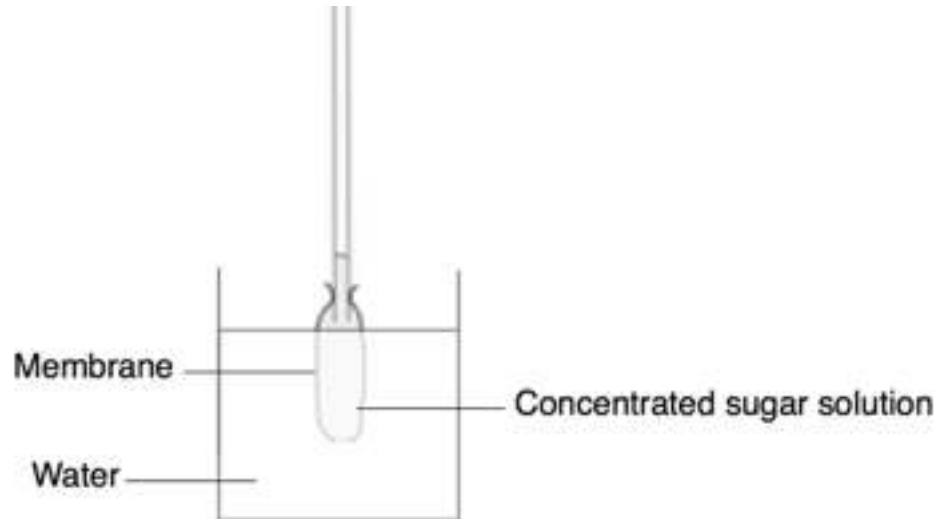


0	1
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A student set up an investigation to look at the movement of substances through a membrane, filled with concentrated sugar solution and tied around a capillary tube

The diagram shows this apparatus



0	1
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1

After a period of time the level of concentrated sugar solution up the capillary tube changes. Explain as fully as you can why the level changes

[3 marks]

0	1
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2

The student repeated the experiment with a more dilute sugar solution. The results were different. In what way were they different?

Give a reason for your answer

[2 marks]

0 1 . 3

The diagrams below show what happens to a plant cell when placed in distilled water.



before



after

Explain why the cell swells as shown

[2 marks]

0 1 . 4

A piece of peeled potato is placed in concentrated sugar solution. Describe the change which will occur and explain why this change occurs.

[3 marks]
