INTEGRATED SCIENCE PRACTICAL

PAPER 2

TASK 1:

QUESTION ONE

Apparatus and Materials:

- Two potato cylinders of equal size (or strips)
- Two beakers
- Distilled water
- Concentrated sugar solution
- Knife and ruler

Procedure:

- Pour distilled water into beaker A and concentrated sugar solution into beaker B.
- Measure and record the initial length of each potato piece.
- Place one piece in beaker A and the other in beaker B.
- Leave for at least 20 minutes.
- Remove the potato pieces, gently dry them, and measure the final length.
- Note any changes in texture (firmness or softness).

Questions:

a) State the aim of the experiment. (1mark)

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b) Record the initial and final lengths of each potato piece in the below table. (4marks)

	Initial length	**Final length**
Beaker A		
Beaker B		

c) Describe your observations for each beaker. (3marks)

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d) Explain why the potato pieces changed as they did. (3marks)

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e) Define osmosis. (2marks)

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