Movement into and out of cells – 2021 O Level 5090
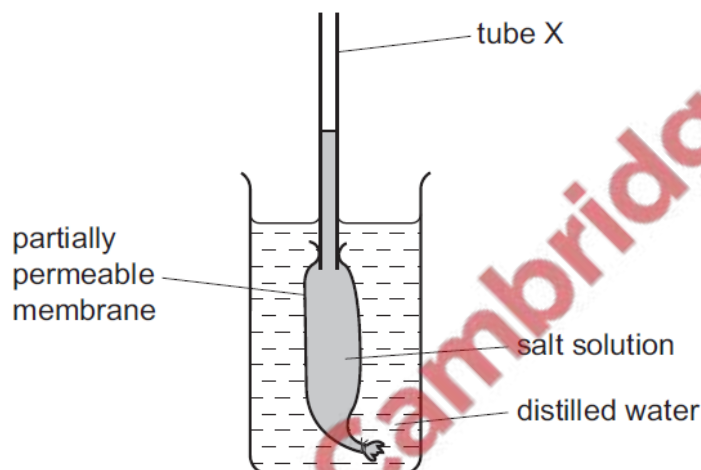
1. Nov/2021/Paper_11/No.2
    Which process occurs by diffusion alone?

    A movement of carbon dioxide into the palisade cells in a leaf

    B uptake of magnesium ions by root hair cells

    C movement of food from the stomach to the duodenum

    D transfer of glucose molecules from the ileum into the blood

2. Nov/2021/Paper_11/No.3
    An experiment to investigate osmosis is set up as shown.

What happens to the height of the liquid in tube X and the concentration of the salt solution?

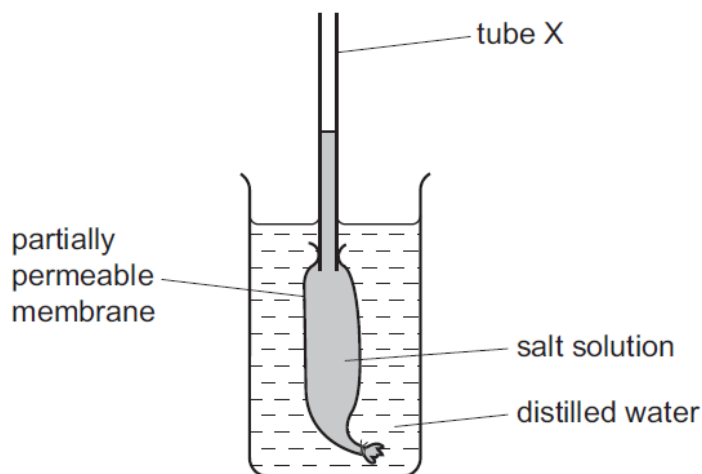|	height of the liquid in tube X	concentration of the salt solution
A	decreases	decreases
B	decreases	increases
C	increases	decreases
D	increases	increases

3. Nov/2021/Paper_12/No.2
    Which statement about diffusion is correct?

    A Diffusion always involves the movement of water molecules.

    B Diffusion depends on the presence of a partially permeable membrane.

    C Diffusion only happens to molecules in a solution.

    D Diffusion only involves molecules moving down a concentration gradient.

4.
An experiment to investigate osmosis is set up as shown.

What happens to the height of the liquid in tube X and the concentration of the salt solution?

	height of the liquid in tube X	concentration of the salt solution
A	decreases	decreases
B	decreases	increases
C	increases	decreases
D	increases	increases

5.
A piece of plant tissue is transferred from a beaker of water into a concentrated sugar solution.

Which row describes what happens?

	movement of water	volume of tissue cells
A	into the cells	decreases
B	into the cells	increases
C	out of the cells	decreases
D	out of the cells	increases

6.

Which statements about active transport are correct?

    1   Ions move from a region of high concentration to a region of low concentration.

    2   Ions move across the cell membrane.

    3   Energy released during respiration is used to move ions into or out of a cell.

A   1, 2 and 3   **B**   1 and 2 only   **C**   1 and 3 only   **D**   2 and 3 only