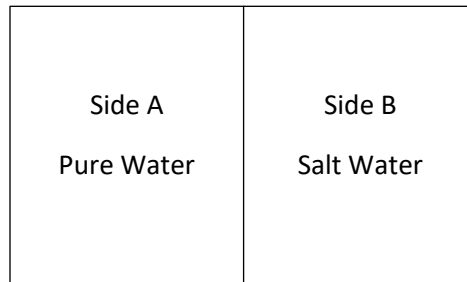


Unit 3 Transport Across Cell Membrane REVIEW

LONG ANSWER (6 marks)



1. An experiment studying molecular movement through a semi-permeable membrane is conducted. Salt and water solutions are placed in a container on either side. The membrane permeable to ONLY WATER. The temperature remains constant at 35°C.
 - a. Describe what would happen to the volume of each side after 10 hours. Explain. (3 marks)
 - b. If the membrane was permeable to both water and salt, describe what would happen to the solute concentrations on both sides of the membrane. Explain. (3 marks).

MULTIPLE CHOICE (7 marks)

- Factors affect the rate of diffusion across a semi-permeable membrane
- The structure and function of phospholipids (and the fluid mosaic model)
- Osmosis
- Diffusion
- Active transport
- Facilitated transport
- Hypertonic
- Isotonic
- Hypotonic