

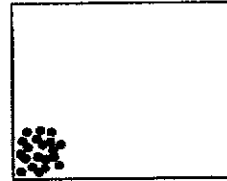
I. Cells Respond to their Environment

- A. Homeostasis – in response to
- B. Assures to keep cells

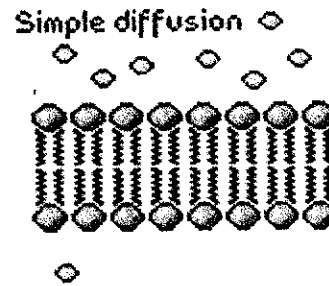
II. Maintaining Cell Homeostasis with and without Energy

A. Passive Transport (Requires no Energy)

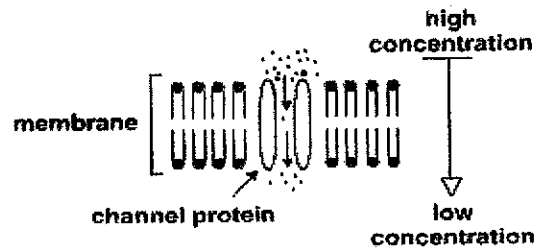
a. Diffusion – Molecules move from an area of



b. Simple Diffusion – Molecules move through the membrane. Molecules move with the (a difference in the concentration of molecules)



c. Facilitated Diffusion – carrier help transport larger molecules and ions their concentration gradient (from concentration)

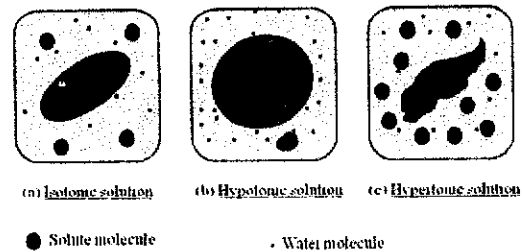
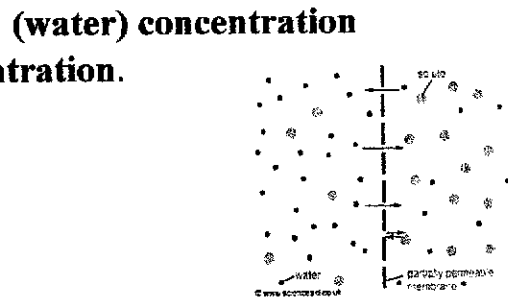


d. Osmosis –

1. Water moves from an area of (water) concentration to an area of (water) concentration.
2. Water always moves in the direction of
3. Osmosis affects cells.

Types of Solutions:

- Hypotonic – Solute concentration is outside the cell compared to the cell. (water)
- Hypertonic – Solute concentration is outside the cell compared to inside the cell. (water)
- Isotonic – Solute concentration is



inside & outside the cell.