Unit 2
Solutions

Reverse osmosis:

- Two solutions having same osmotic pressure are called isotonic solutions.
- For the solutions of different osmotic pressure, the solution with higher osmotic pressure is known as hypertonic.

  The solution with lower osmotic pressure is known as hypotonic.

- A cell placed in hypertonic solution would shrink due to plasmolysis.
- A cell placed in hypotonic solution would swell due to haemolysis.

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Reverse osmosis:

When a pressure greater than osmotic pressure is applied on solution side, solvent molecules flows from solution side to solvent side. This is known as reverse osmosis.

Reverse osmosis is used in desalination of water.

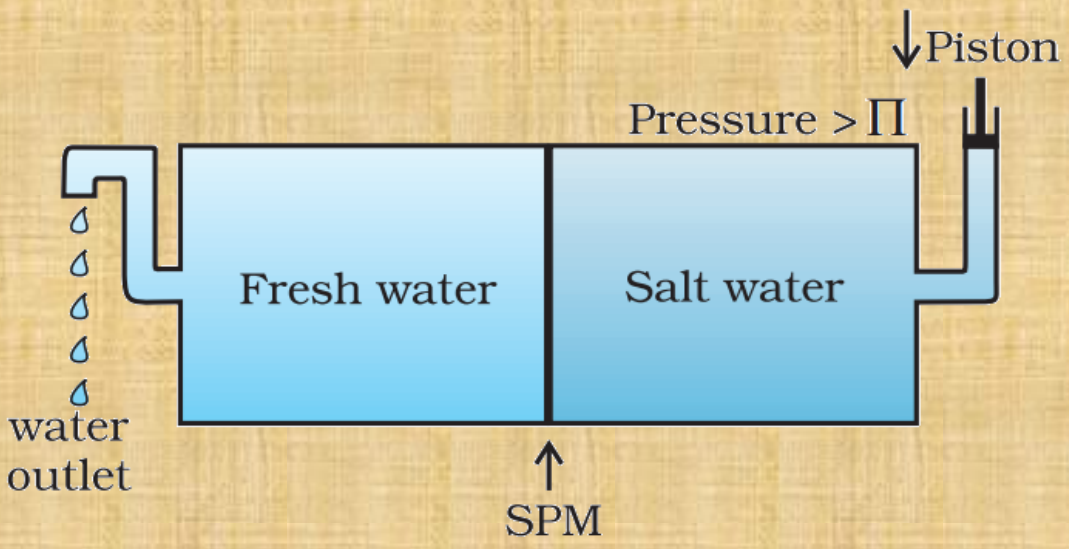

Fig. Reverse osmosis occurs when a pressure larger than the osmotic pressure is applied to the solution.

Pure water is squeezed out of sea through a membrane. A film of cellulose acetate placed over a suitable support is used as semipermeable membrane.

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