

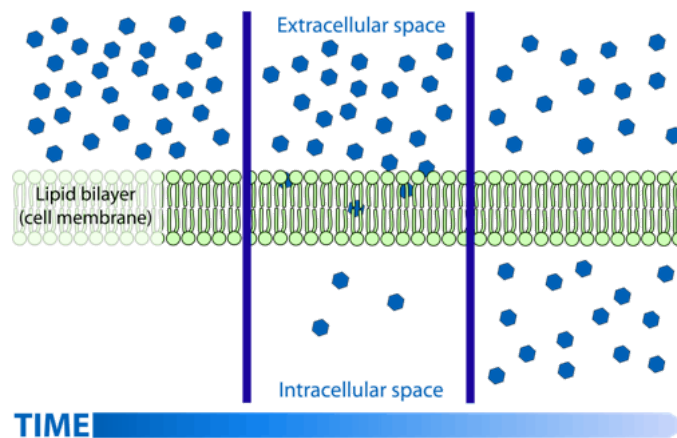
## FlexiPrep

### Movement of Molecules: Passive Transport, Simple Diffusion, Facilitated Diffusion (For CBSE, ICSE, IAS, NET, NRA 2022)

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#### Passive Transport

- In Passive Transport, the transportation of molecules across the membrane is using a concentration gradient.
- Cellular energy is not required.
- The movement of biochemical is from higher to the lower concentration.
- Natural entropy is used for movement form higher to the lower concentration.
- At equilibrium there is no net transport of molecules.
- Using this process all the waste molecules using water and carbon dioxide get separated.
- This process occurs in the kidneys and the liver including the alveoli of the lungs during the exchange oxygen and carbon dioxide.
- Some of the examples of passive transport are Osmosis, diffusion and facilitated diffusion.

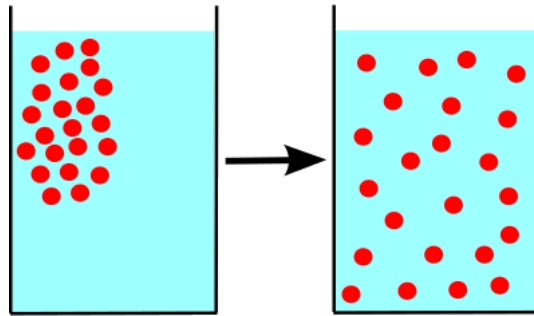


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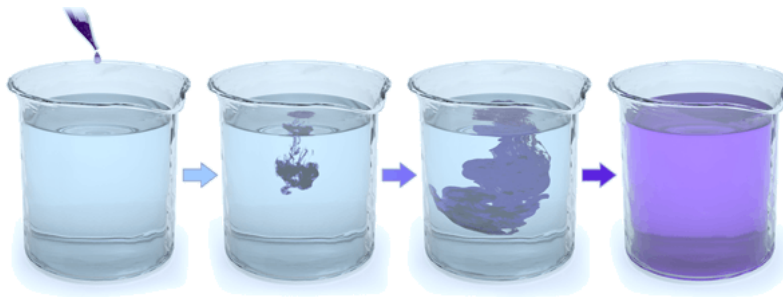
#### Types of Passive Transport

##### Simple Diffusion

- There is a net movement of atoms, ions, and molecules.
- Movement is from a region of higher concentration to a region of lower concentration.
- Driven by a gradient in concentration.
- Simple diffusion is used by many non-polar molecules.



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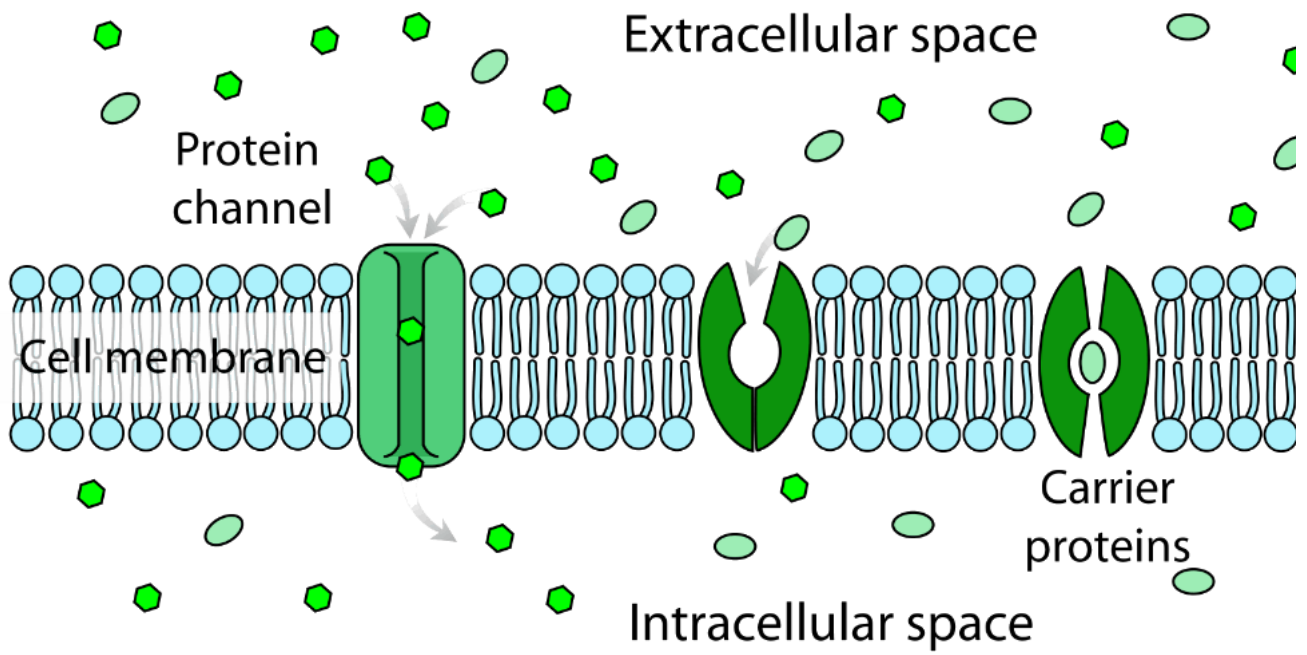


## Diffusion

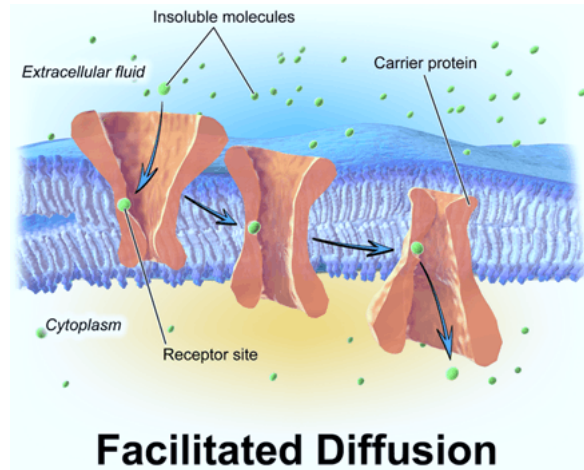
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### Facilitated Diffusion

- Also known as facilitated transport or passive-mediated transport.
- Involves process of spontaneous passive transport.
- doesn't directly require chemical energy from ATP hydrolysis.
- The transportation is based on molecular binding.



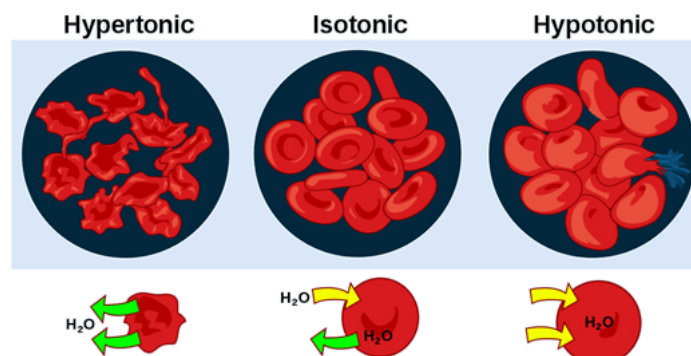
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### Osmosis

- Transportation of water and other molecules or substance.
- The transportation takes place through the selectively permeable cell membrane.
- Factors affecting this transportation:
  - Cell having less negative water potential.
  - Soluble potential of a molecule.
  - Pressure potential of a cell membrane.



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