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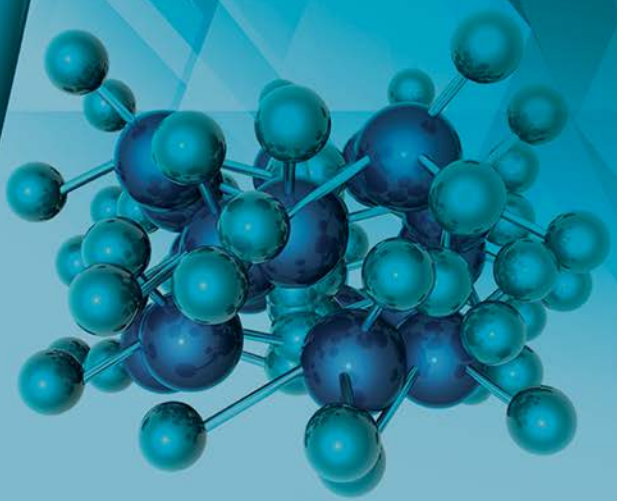
S Kavitha

Viva Voce in BIOCHEMISTRY



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Chapter

2 Biophysics

1. **What is diffusion?**
   It is the process by which solute moves randomly, from its high concentration to its low concentration across a semipermeable membrane.

2. **What is osmosis?**
   It is the process of movement of water molecule from low solute concentration to high solute concentration across a selectively permeable membrane.

3. **What is osmotic pressure?**
   It is the pressure, which prevents movement of water from low solute concentration to high solute concentration across a semipermeable membrane.

4. **What is dialysis?**
   Movement of solute from an area of high concentration to an area of low concentration across a semipermeable membrane. Small solutes can pass through while larger molecules are blocked depending on the pore size of the membrane.

5. **What is surface tension?**
   It is the force, which acts on a molecule perpendicularly inward on the surface of the liquid pulling the surface molecules inside.

6. **What is sorption? Mention the two types of sorption?**
   Sorption is taking up of one substance by another.
   Types: Absorption
   Adsorption.

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7. **What is adsorption?**
   It is a physical phenomenon of attachment or bonding of substances on the surface of another substance.

8. **What are crystalloids? Give examples.**
   Crystalloids are aqueous solution of mineral salts or other water soluble molecules, e.g. normal saline, ringer lactate.

9. **What are colloids? Give examples.**
   Colloid contains large insoluble molecules dispersed evenly in another substance, e.g. albumin, dextran.

10. **Define hypertonic, hypotonic and isotonic solutions.**
    - *Hypertonic*—Solution with high solute concentration than that of cytoplasm
    - *Hypotonic*—Solution with low solute concentration than that of cytoplasm
    - *Isotonic*—Solution with same solute concentration as that of cytoplasm.

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Salient Features

- Covers all aspects of biochemistry in simple question and answer format
- Divided into chapters according to standard textbooks
- Chapters on clinical chemistry, cancer biology and endocrinology are also included
- Practicals based questions which are helpful in answering in theory examination also included.

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