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BIOCHEMISTRY
300LEVEL
BCH 312

1. Transportation of biomolecules and ions across membrane in the direction of increasing concentration.

II. To carry out mechanical work such as muscle contraction.

III. To synthesize biomolecules for smaller precursors (work).

2. First law of thermodynamics: states that in any physical or chemical change, the total energy of a system including its surroundings remains constant. Consequently, whenever energy is used for executing a task or is transformed from one kind into another, the total amount of energy is conserved.

II. Second law of thermodynamics: The second law of thermodynamics states that the total entropy of an isolated system can never decrease over time, and is constant if and only if all processes are reversible. Isolated systems spontaneously evolve towards thermodynamic equilibrium, the state with maximum entropy.