**Assignment Title:** Class work

**Course Title:** General Biochemistry II

**Course Code:** BCH 202

**Question**: Write on biochemical importance of coenzymes

Antioxidants :

Because many coenzymes are able to capture electrons, they often function as antioxidants. Unbound electrons, also known as free radicals, can harm cells, damaging DNA and even leading to cell death. Antioxidants are able to bind free radicals, preventing such damage from happening.

## Redox Reactions

Another primary function of coenzymes is to aid in the loss or gain of electrons in redox reactions. During oxidation, a molecule or atom loses electrons. Reduction occurs when a molecule or atom gains electrons. Oxidative phosphorylation is also a good example of redox as well as an illustration of how coenzymes work in tandem.

## Transferring Groups

Coenzymes also aid in transferring certain groups of atoms from one molecule to another. For example, hydrogen transfer, the movement of hydrogen atoms from one part of a cell or organelle to another, is essential to many processes, including the reproduction of ATP molecules.