## **REDOX REACTIONS**

## **REDOX REACTIONS IN TERMS OF ELECTRON TRANSFER REACTIONS**

## MODERN OR ELECTRONIC CONCEPT OF OXIDATION REDUCTION

A. Oxidation: According to this concept, the process in which involves the loss of e<sup>-</sup> in an element or species is called oxidation. It is also called de-electronation.
For example:

 B. Reduction : According to this concept, the process which involves the gain of electrons by an element or an atom or an ion is called reduction. It is also called electronation.
For example :

$$I_2 + 2e^- \rightarrow 2I^- (0.\text{N. of } I, 0 \rightarrow -1)$$
  
Fe<sup>3+</sup> + e<sup>-</sup>  $\rightarrow$  Fe<sup>+2</sup> (0.N. of Fe, + 3  $\rightarrow$  + 2)  
Sn<sup>+4</sup> + 2e<sup>-</sup>  $\rightarrow$  Sn<sup>+2</sup> (0.N. of Sn, + 4  $\rightarrow$  + 2)