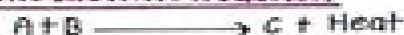


## HEAT IN REACTIONS :-

### (A) Exothermic Reaction



#### (1) Respiration



#### (2) Burning of natural gas



#### (3) Decomposition of vegetables into compost

### (B) Endothermic Reaction



- All Examples of Decomposition Reaction



reaction

**REDOX REACTION** The Reaction in which oxidation and Reduction occur.

### Oxidation

- if a chemical (A)
  - loss of electron
  - Gains of Oxygen
  - loss of Hydrogen

It is called oxidation of A and 'A' is said to be oxidised.



### Reduction

- if chemical (B)
  - Gain of  $e^-$
  - loss of  $\text{O}_2$  (oxygen)
  - Gains of Hydrogen

it is called Reduction of B and 'B' is said to be Reduced.



**CORROSION :-** When a metal is attacked by substances around it such as moisture (water vapour + oxygen), acid etc. it is said to be corrode and this process is called corrosion.

Examples of corrosion :-

(1) Rusting of iron - Hydrated Reddish Brown iron oxide (rust)

(2) Tarnishing of copper - Green

(3) Tarnishing of silver - Black

**RANCIDITY :-** The taste or smell of food material containing fat/oil changes when it is left exposed to air for a long time. ✓ oxidation of fat/oil present in food material causes Rancidity.

**Prevention :-**

- (1) Antioxidants
- (2) Air tight Container
- (3) Bags of chips (Flushed with  $\text{N}_2$  gas)

## PHYSICAL CHANGE AND CHEMICAL CHANGE

- No chemical reaction happens.
- No new chemical is formed.

### Examples

- Boiling water from the evaporating dish.
- Melting of ice to give water.
- Melting of waxes.
- crushing a paper cup.
- crystallisation.

- A chemical reaction happens.
- shape, size, colour, etc may also change

### Examples

- Burning of paper.
- Fermentation of grapes.
- souring of milk.
- curd from milk is left in a room during summer.
- Rusting of iron.
- food digestion.
- food cooking.
- chemical Battery usage.

# Fast Reactions Primary Processes In Ch

**G. Renger**



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