

## Revision Notes

### Chapter – 6

#### Physical and Chemical Changes

- Changes can be of two types, physical and chemical.

1. **Physical changes** are changes in the physical properties of substances. No new substances are formed in these changes. These changes may be reversible.

Example: crushing a can, glowing of an electric bulb, tearing of paper, mixing of sand and water.

2. **Chemical Changes** are changes in which the composition and chemical properties of the substance get changed. In chemical changes new substances are produced. This change is permanent and irreversible.

Example: burning of a candle, formation of curd from milk, ripening of fruits.

- **Chemical Reactions in daily life:**

1. **Rusting of Iron:** Rusting is the process in which iron turns into iron oxide. It happens when iron comes into contact with water and oxygen. The process is a type of corrosion that occurs easily under natural conditions.

#### Prevention of Rusting:

- (i) By Painting
- (ii) By Oiling and greasing
- (iii) By Chromium plating
- (iv) By Galvanizing
- (v) By Alloying

2. **Cooking of food:** Cooking causes breakdown of complex molecules of carbohydrates, fats and proteins into smaller molecules.

It is regarded as a decomposition reaction. Cooked food is easier to digest than uncooked food.

3. **Decay of Organic Substances:** Microorganisms like fungi and bacteria produce enzymes which break down complex organic compounds into smaller substances.

It is also regarded as a decomposition reaction.

- Some substances can be obtained in pure state from their solutions by crystallization.