## Chapter – 6 Physical and Chemical Changes

- Changes can be of two types, physical and chemical.
- **Physical changes** are changes in the physical properties of substances. No new substances are formed in these changes. These changes may be reversible. Example: dissolution of sugar in water, glowing of an electric bulb, tearing of paper.
- **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 Every day Life:

**Rusting of Iron:** Rust is a reddish-brown flaky substance that forms on the surface of iron objects after the process of rusting.

**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.

**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.

## **Prevention of Rusting:**

By Painting

By Oiling and greasing

By Chromium plating

By Galvanizing

By Alloying

• Some substances can be obtained in pure state from their solutions by crystallisation.