

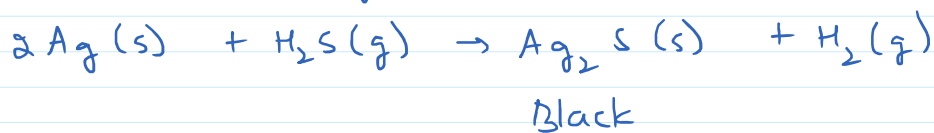
Effects of oxidation reactions in everyday life

Corrosion

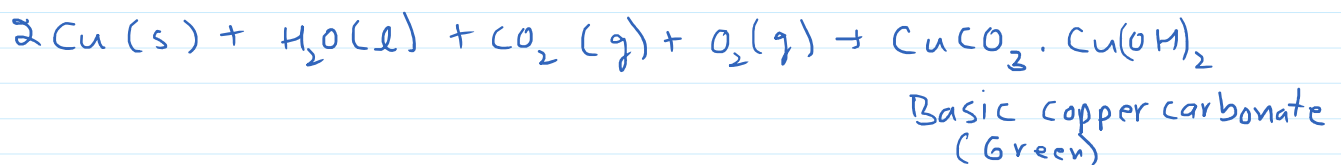
When a metal is attacked by substances around it, such as moisture, acids etc, it is said to corrode and this process is called corrosion.

Eg:

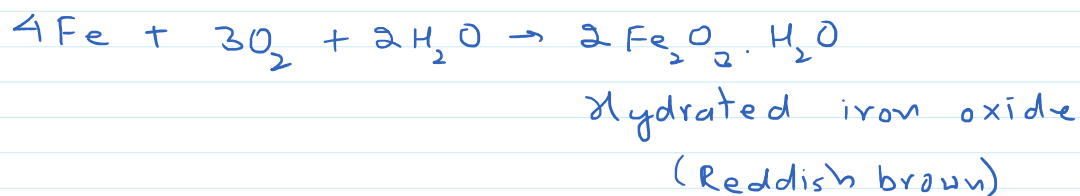
i) Black coating on silver



ii) Green coating on copper



iii) Rusting of iron



in presence of air and moisture

Iron articles when left for sometime are coated with reddish brown powder. This process is called rusting of iron.

Effects of corrosion:

- i) It weakens the material by eating up gradually.
- ii) It damages car bodies, bridges, iron railings, ships etc.

Rancidity

Aerial oxidation of fats and oils in foods marked by unpleasant smell and taste is called rancidity.

Prevention:

- i) Substances which prevent oxidation (antioxidants) are added to food containing fats and oils.
- ii) Keeping food in air tight containers helps to slow down oxidation.
- iii) Packaging of food in nitrogen gas prevents oxidation e.g. manufacturing of chips