

Chapter 01

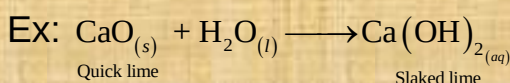
CHEMICAL REACTIONS & EQUATIONS

Types of chemical reactions:

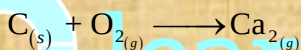
There are different types of chemical reactions

1. Combination reactions:-

- The reactions in which two or more substances combine to form a single substance are known as combination reactions.

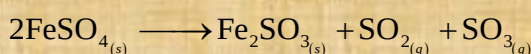
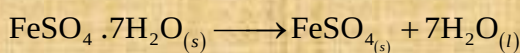


- Coal burns in presence of oxygen to give carbon dioxide.



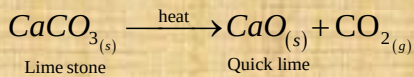
2. Decomposition reactions:-

- Reactions in which a single substance breaks down to give two or more substances are known as decomposition reactions.
- Hydrated ferrous Sulphate ($\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$) loses its green colour on heating and decomposes to give ferric oxide (Fe_2O_3), Sulphur dioxide (SO_2) and Sulphur trioxide (SO_3).

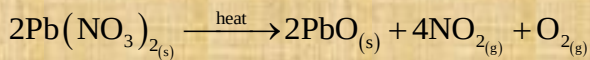


➤ Thermal decomposition reactions:-

- Decomposition reactions taking place in presence of heat

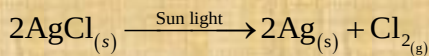


- Heating of lead nitrate ($\text{Pb}(\text{NO}_3)_2$) gives brown coloured fumes of NO_2



➤ Photolytic decomposition reactions:-

- Decomposition reactions taking place in presence of sun light.



➤ Electrolytic decomposition reactions:-

- Decomposition reactions taking place in presence of electricity.

