Quick lime

Ca(OH)<sub>2</sub> slaked lime is used for white washing walls. It reacts will CO<sub>2</sub> to form CaCO<sub>3</sub> and gives a shiny finish to the walls.

$$\begin{array}{cccc} \operatorname{Ca(OH)}_{2_{(aq)^+}} & \operatorname{CO}_{2_{(g)}} & \longrightarrow & \operatorname{CaCO}_{3_{(s)^+}} & \operatorname{H}_2\operatorname{O}\ (\mathit{l}) \\ & & & & & & & & \\ \operatorname{Calcium} & & & & & & \\ \operatorname{hydroxide} & & & & & & & \\ \end{array}$$

**Burning of Coal** 

$$C_{(s)} + O_{2(g)} \longrightarrow CO_{2(g)} + heat + light$$

Formation of water

$$C_{(s)} + O_{2(g)} \longrightarrow CO_{2(g)} + \text{heat} + \text{light}$$
Formation of water
$$2H_{2(g)} + O_{2(g)} \longrightarrow 2H_{2} \text{ (I) Otes}$$
hermic Reaction (2) Reaction in which test Creleased along with the

Exothermic Reaction : Reaction in which reat Creleased along with the

$$P(\mathbf{e}_{g}, CH_{4(g)} + 2O_{2(g)}) \xrightarrow{P} CO_{2(g)} + 2H_2O_{(g)}$$

- Respiration is also exothermic reaction.
- De composition of vegetable matter into compost.

**De compositon Reactions :-** The reaction in which a single substance decomposes to give two or more substances. De composition reactions can be of three types

**Thermal Decompositon:** When a decompositon reaction is carried out by heating

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