

Materials: Metals and Non-Metals

Q1. Explain how metals and non-metals produce oxides with different characteristics.

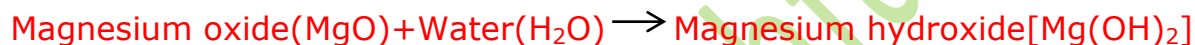
Ans. Metal

When magnesium burns in air, it combines with the oxygen of air to form magnesium oxide (which is basic in nature).



(A basic oxide)

Magnesium oxide dissolves partially in water to form magnesium hydroxide solution.



Magnesium hydroxide turns red litmus blue. This shows that it is a base and magnesium oxide is a basic oxide.

Non- Metal

When sulphur burns in air, it combines with oxygen of air to form sulphur dioxide (which is an acidic oxide).



(An acidic oxide)

Sulphur dioxide dissolves in water to form sulphurous acid solution.



This sulphurous acid turns blue litmus to red showing that it is an acid and that sulphur dioxide is acidic in nature.