

Science

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(Chapter 3)(Metals and Non - Metals)

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Question 1:

Metallic oxides of zinc, magnesium and copper were heated with the following metals.

Metal	Zinc	Magnesium	Copper
Zinc oxide			
Magnesium oxide			
Copper oxide			

Answer 1:

Magnesium is the most reactive among these three metals and Zinc is more reactive than Copper. So, Magnesium will displace Zinc oxide and Copper oxide whereas Zinc will displace Copper oxide only.

Metal	Zinc	Magnesium	Copper
Zinc oxide	No Reaction	Displacement Reaction	No Reaction
Magnesium oxide	No Reaction	No Reaction	No Reaction
Copper oxide	Displacement Reaction	Displacement Reaction	No Reaction

Question 2:

Which metals do not corrode easily?

Answer 2:

The metals which are the least reactive, do not corrode easily.

For example:

Gold, silver, platinum and copper.

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Question 3:

What are alloys?

Answer 3:

An alloy is a homogeneous mixture of two or more metals, or a metal and a non-metal.

For example:

- *Stainless steel* is an alloy of Nickel and Chromium.
- *Amalgam* is an alloy of Mercury.
- *Brass* is an alloy of Copper and Zinc.
- *Bronze* is an alloy of Copper and Tin.
- *Solder* is an alloy of Lead and Tin.

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