

ANSWERKEY

1.

METALS	NONMETALS
sodium ,potassium,magnesium,iron , gold,copper,zinc ,silver	carbon,oxygen,chlorine sulphur,nitrogen

2.Sodium is highly reactive. It reacts with water and changed to sodium hydroxide and water. Sodium hydroxide is alkaline in nature. Phenolphthalene gives pink colour in alkali.

3 a.Magnesium(Mg)

b.Lead (Pb)

c.Copper(Cu)

d. $Mg+2HCl \rightarrow MgCl_2+H_2$

$Zn +2HCl \rightarrow ZnCl_2+H_2$

$Fe +2HCl \rightarrow FeCl_2 +H_2$

$Pb +2HCl \rightarrow PbCl_2+H_2$

$Cu +HCl \rightarrow$ No reaction

e. Hydrogen

f. $Cu < Pb < Fe < Zn < Mg$

4.No

Gold is very less reactive metal. It does not react with water and air

The series obtained by arranging the metals in the decreasing order of their reactivity is known as the reactivity series