## THIRUVANANTHAPURAM EDUCATIONAL DISTRICT STD X CHEMISTRYCHAPTER3 MODULE1 C WX 3(1) EM ANSWERKEY 1. **METALS** NONMETALS sodium, potassium, magnesium, iron, carbon,oxygen,chlorine gold,copper,zinc ,silver 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** +2**HCl** $\rightarrow$ **PbCl**<sub>2</sub>+**H**<sub>2</sub> **Cu** +HCl → **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

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