**I.P.S.Sr.Sec.School**

**Max Time :1 hr** **Class : 10th Science Max Marks : 20**

**METAL & NON-METALS**

1. Name two metals which melt at body temperature [ 1 ]
2. Which property of graphite is utilized in making electrodes? [ 1 ]
3. Why is sodium kept immersed in kerosene oil. [ 1 ]
4. What is aqua regia? [ 1 ]
5. Name a metal which react with both hot water and steam. [ 1 ]
6. Which gas is produced, when dilute hydrochloric acid is added to a reactive metal? Write the chemical equation, when iron react with dilute H2SO4. [ 2 ]
7. Generally when metal are treated with mineral acids, hydrogen gas is liberated but when metals (except Mg and Mn) are treated with HNO3, hydrogen is not liberated, why? [ 2 ]
8. Explain meaning of malleable and ductile. [ 2 ]
9. (a) Why does calcium start floating when it reacts with water? Write the balanced chemical equation of the reaction. [ 3 ]

(b) Name two metals which do not react with water.

1. State what would happen if : [ 3 ]

(a) Some zinc pieces are placed in blue copper sulphate solution.

(b) Some copper pieces are placed in green ferrous sulphate solution.

(c) An iron nail is dipped in a solution of copper sulphate for some time.

1. (a) Write electron dot structure of Ca (At. no = 20) and O (At. no = 8) [ 3 ]

(b) Show the formation of calcium oxide by transfer of electrons.

(c) Name the ions present in this compound.