Assignment- 1

10th CHEMISTRY (SEC - A)

Q1. An iron salt 'X' on heating produces a brown coloured solid oxide 'Y' and releases suphur oxides. Identify X and Y. Which type of reaction is this? Write balanced chemical equation for this reaction.

Q2. Identify the oxidizing agent and reducing agent in the following equation.

$Fe_2O_3 + 3CO$ -------> $2Fe + 3CO_2$

Q3. Define Rancidity? Why Potato chips should be kept in air tight containers?

Q4. Rewrite the following chemical equation in the balanced form

$NH_3 + O_2$ -------> $NO + H_2O$

Q5. A gas 'X' obtained from chlor-alkali process is used for preparing a compound 'Y' which is used for disinfecting drinking water.

(1) Identify 'X' and 'Y'.

(2) Write the chemical equation for preparation of 'Y' from 'X'.

(3) Give uses of 'X' and 'Y'

Q6.How is the concentration of the Hydroxide ion affected when the following is added to sodium Hydroxide solution.

(a) Excess NaOH (b) distilled water

Q7.Name the type of salts (acidic,basic or neutral) from the following, Write equation of their formation.

(a) Sodium Sulphate (b) Ammonium Chloride

Q8.Why Plaster of paris is stored in air tight containers?

Q9.Name the compound of sodium used for softening hard water.

Q10.A metal 'M' is found in the form of its ore metal sulphide is MS. How will you extract metal 'M' from its ore?

Q11.Name the alloy used for joining electrical wires. Give its constituents.

Q12.Why holes are formed in an iron pot when Copper Sulphate solution is kept in it?

Q13. Name the metal which is malleable but not ductile.

SECTION –B

10^{th} –CHEMISTRY (M.C.Q)

Q1. A solution has pH value 5,to this solution 1ml of dilute Hydrochloric Acid is added in it . The pH of new solution will be:

(a) More than 5

(b) less than 5

(c) 5 only

(d) 10 only

Q2. Solid Sodium bicarbonate was placed on a strip of pH paper .The colour of the strip:

(a) Turned blue

(b) Did not change

(c) Turned light pink

(d) Turned red

Q3. Which of the following will react with solid sodium carbonate to release carbon dioxide gas?

(a) Potassium Sulphate solution

(b) Sodium Nitrate solution

(c) Sodium Hydroxide solution

(d) Hydrochloric Acid

Q4. The reaction between calcium oxide and water is:

(a) Combination reaction

(b) Decomposition reaction

(c) Displacement reaction

(d) Photochemical reaction.

Q5.The colour of Ferric oxide formed by decomposition of green Ferrous Sulphate crystals is:

(a) Red

(b) Brown

(c) white

(d) Blue.