SELF ASSESSMENT TEST - 2

1. Name the following:

[4]

- i) The acid used present in Baking Powder.
- ii) The substance that releases hydronium ions as the only positive ion when dissolved in water.
- iii) The cation that does not form any precipitate with ammonium hydroxide but forms one with sodium hydroxide.
- iv) The gas evolved when sodium hydroxide is added to aluminium and heated.
- 2. Give reason:

[2]

- i) Iron (III) Chloride is stored in a closed container.
- ii) An aqueous solution of ammonium chloride is acidic in nature although it is a normal salt.
- 3. State your observation when:

[3]

- i) Washing soda crystals are exposed to the atmosphere.
- ii) Ammonium hydroxide solution is added dropwise till in excess to copper sulphate solution
- iii) Red and blue litmus solutions are added separately to copper sulphate solution.
- 4. Outline the steps (balanced chemical equations) that would be necessary to convert insoluble lead (II) oxide to insoluble lead chloride. [2]
- 5. Give balanced equations for the following:

[5]

- i) Phosphorus reacts with concentrated nitric acid.
- ii) Zinc oxide reacts with dilute hydrochloric acid.
- iii) Magnesium sulphite reacts with dilute nitric acid.
- iv) Ferric chloride solution reacts with aqueous sodium hydroxide.
- v) Ammonium sulphate is warmed with potassium hydroxide.
- 6. Choosing substances from the list given below, write balanced chemical equations to prepare the following salts. [4]

Dilute sulphuric acid Copper Copper(II) Carbonate

IronSodium CarbonateSodiumSodium ChlorideZincZinc nitrate

i) Sodium Sulphate

ii) Zinc Carbonate

- iii) Copper (II) Sulphate
- iv) Iron(II) sulphate