## CLASS 10 CHEMISTRY ANALYTICAL CHEMISTRY

- 1. Write balanced equations for the following :
  - a) Reaction of sodium hydroxide solution with Iron (III) chloride solution.
  - b) Copper sulphate solution with ammonium hydroxide solution first little and then excess
  - c) Reaction of aluminum oxide with hot concentrated caustic soda
  - d) Reaction of zinc with hot conc.caustic potash
  - e) Lead nitrate solution reacts with sodium hydroxide first little and then in excess.
- What would you observe when sodium hydroxide is added to the following first little and then in excess :
  - FeCl<sub>3</sub>
  - Pb(NO) 3
  - Ca (NO <sub>3</sub>) <sub>2</sub>
- 3. Name the probable cation present on the following :
  - a) White precipitate insoluble in ammonium hydroxide solution but soluble in sodium hydroxide solution.
  - b) Deep blue coloured solution with excess of ammonium hydroxide solution.
  - c) Ammonium hydroxide solution is added in excess to a salt solution, it does not form any precipitate but with sodium hydroxide white precipitate is formed.