LOYOLA SCHOOL, BHUBANESWAR

Second Class Evaluation - November 2025

Class: VIII **Subject: Chemistry** **F.M.= 20** **Time: 40mins**

1. Select the correct answer: [3]
   a. The acidic gas produced when lead nitrate is heated is
      i) NO ii) N_2O iii) NO_2 iv) N_2
   b. $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$ is an example of
      i) Decomposition reaction iii) Precipitation reaction
      ii) Displacement reaction iv) Combination reaction
   c. The gas produced when iron metal reacts with hydrochloric acid is
      i) neutral ii) basic iii) acidic iv) amphoteric
2. Differentiate between the following: [3]
   a) Photochemical reaction and electrochemical reaction
   b) Positive catalyst and negative catalyst
   c) Displacement reaction and double displacement reaction
3. Name the gas released/formed when: [4]
   a) potassium iodide reacts with chlorine gas.
   b) copper carbonate is heated.
   c) sodium metal reacts with cold water.
   d) nitrogen gas reacts with hydrogen gas.
4. Balance the following chemical equations: [5]
   a) $N_2O_5 + H_2O \rightarrow HNO_3$
   b) $KClO_3 \rightarrow KCl + O_2$
   c) $H_2O_2 \rightarrow H_2O + O_2$
   d) $CuO + HNO_3 \rightarrow Cu(NO_3)_2 + H_2O$
   e) $Na_2SO_3 + HCl \rightarrow NaCl + H_2O + SO_2$
5. State your observation when: [5]
   a) barium chloride solution is mixed with sodium sulphate solution.
   b) phenolphthalein is added to sodium hydroxide solution.
   c) magnesium ribbon is burnt in air.
   d) copper sulphate solution is added to sodium hydroxide solution.
   e) a piece of iron is added to $FeSO_4$ solution.

******************ALL THE BEST******************