

STD X

FIRST ASSESSMENT TEST

Mark 20

**CHEMISTRY****QUESTION 1**

1. Which property of concentrated sulphuric acid is made use of in each of the following cases and write its equations;

- a) As a source of hydrogen by diluting it and adding a strip of Magnesium.  
b) In the preparation of CO gas from formic acid. (2)

2. What do you observe when dilute sulphuric acid is added to sodium bicarbonate.

Write its equation ? (2)

**QUESTION 2**

1. Define the following term a) Acidity of a base . (1)

2. Write an equation to get a gelatinous white precipitate as metal hydroxide using sodium hydroxide solution. (1)

3. Write **equation** using the type of compound given in the description;

a) A diacidic base on warming with ammonium salt to give ammonia gas. (1)

**QUESTION 3**

1. Write balanced equation

a) Aluminium is warmed with NaOH solution. (1)

2. Write **observation** and balanced **equation** for the following reaction;

1. Reaction of  $\text{NH}_4\text{OH}$  solution with Iron (III) Chloride solution.

2. NaOH is added dropwise till in excess to a solution of  $\text{ZnSO}_4$ . (3)

**QUESTION 4**

1. Write **equation** for the decomposition of the following **nitrate salt** on

heating.

a) which produce only one gas and a residue. (1)

2. What do you observe when copper reacts with conc.  $\text{HNO}_3$ . Write its equation. (1)

4. Write the equation in the catalytic chamber with condition used in Ostwald Process. (1)

### QUESTION 5

1. Fill in the blanks:

Ammonia acts as a base due to the presence of ----- on the nitrogen atom and it ----- metallic oxides. (1)

2. Give balanced equation for the following conversions:

a) Ammonia to nitrogen using an acidic gas.  
c). Getting lead from lead oxide using Ammonia gas (2)

### QUESTION 6

1. What property of HCl is demonstrated when it is collected by downward delivery? Write equation for the lab. preparation of HCl gas? (2)

3. Write appropriate observation for the following;

a) Dilute HCl is added to lead nitrate solution and the mixture is heated. (1)

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