



FUSCO'S SCHOOL (ICSE)

Indiranagar , Bangalore

ANNUAL EXAMINATION 2016-2017

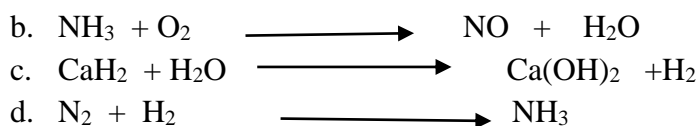
Subject: CHEMISTRY

Class: VII

Mark: 80

SECTION-I [40 MARKS]

- I. Fill in the blanks. [10]**
- Basicity of acetic acid is _____.
 - Triple point of water _____.
 - A mixture of ice and salt is called _____.
 - Metals react with acids releases _____ gas.
 - _____ is a chemical substance which changes its colour when added to a solution of an acid or a base.
 - P^H of pure water is _____.
 - Water has minimum density at _____ and maximum density at _____.
 - Examples of biodegradable waste _____.
 - Aqua regia is a mixture of _____.
 - Soluble alkalies are termed as _____.
- II. Define the following. [10]**
- Neutralisation.
 - Water cycle.
 - Solubility.
 - Water pollution.
 - Acid.
- III. Identify the following. [6]**
- Kavinaya bought two substances from a pharma shop, and labelled as A and B. she performs the following experiment.
- *substance A reacts with dil. acid forms a salt and she observes a gas C has released which can extinguishes with a characteristic pop sound.
- *substance B reacts with oxygen forms its oxide D, which on hydrolysis forms E which turns blue litmus to red.
- Write down the reaction between A and dil. acid.
 - Write down the reaction reaction between B and oxygen.
 - Identify A ,B ,C ,D and E.
- IV. 1. Identify them as strong acid /strong base/ weak acid /weak base. [4]**
- Solution with p^H 8
 - Solution with p^H 1
 - Solution with p^H 6
 - Solution with p^H 13
- IV. 2. Balance the following equations. [5]**
- $ZnCO_3 + HCl \longrightarrow ZnCl_2 + H_2O + CO_2$



V. **Name the following.** [5]

- Acids which do not contain oxygen atoms in their molecule.
- The method used to decompose bio-degradable wastes.
- The process of passing ozone gas through water to kill germs.
- Water that lathers well with the soap.
- Solutions made in water.

SECTION –II [40 MARKS]

I. **Answer the following in detail.**

- Explain the anomalous nature of water. [3]
- Explain the causes for water pollution. [4]
- Why should waste be recycled? [3]
- Write the for the following. [6]
 - Sulphuric acid
 - Nitric acid
 - Calcium hydroxide.
- Fish in lakes survive the winters in cold region. How ? [2]

II. **Distinguish between :** [6]

- Acid and bases.
- Soft water and hard water.
- Biodegradable and non-bio degradable wastes.

III. **Write the molecular formulae for the following(using valences)** [5]

- Magnesium chloride.
- Sodium hydroxide.
- Calcium nitride.
- Potassium sulphate.
- Hydrogen sulphide.

IV. **Match the following.** [5]

- | | |
|-------------------------|-------------------|
| i. Pesticides | Antacid |
| ii. Tartaric acid | Strong acid |
| iii. Sulphuric acid | Non biodegradable |
| iv. Magnesium hydroxide | Weak base |
| v. Ammonium hydroxide | Organic acid |

V. **Copy and complete the table.[write the colour changes in acidic medium and in basic medium]** [6]

Indicator	Acidic medium	Basic medium
Blue litmus		
Phenolphthalein		
Turmeric powder		
Methyl orange		
Red litmus		
Beetroot juice		

