Chapter 2 - ACIDS , BASES AND SALTS

Section-A

Q.1 Ammonium hydroxide is a weak base because –
(A) It has low vapour pressure (B) It is only slightly ionized
(C) It is not a hydroxide of any metal (D) It has low density

Q.2 Which of the following is not a Lewis acid –
(A) CO (B) $SiCl_4$ (C) SO_3 (D) Zn^{2+}

Q.3 NaOH is a strong base because –
(A) It gives OH^- ion (B) It can be oxidised
(C) It can be easily ionised (D) Both (A) and (C)

Q.4 Which of the following is not a Lewis acid –
(A) BF_3 (B) $FeCl_3$ (C) SiF_4 (D) C_2H_4

Q.5 An example of a Lewis acid is –
(A) NaCl (B) $MgCl_2$ (C) $AlCl_3$ (D) $SnCl_4$

Section-B

Q.1 (a) Give Arrhenius definition of an acid and a base.
(a) Choose strong acid and strong base from the following: CH_3COOH, NH_4OH, KOH, HCl

Q.2 What is observed when sulphur dioxide is passed through
(a) water (b) limewater
Also write a chemical equation for the reaction that take place.

Q.3 What is efflorescence ? Given an example.

Q.4 (i) An aqueous solution has a pH value of 7.0. Is this solution acidic, basic or neutral ?
(ii) Which has a higher pH value, 1 M HCl or 1 M NaOH solution ?

Q.5 Given below are the pH values of four different liquids : 7.0,

1

4.0,

4.

0,

2.

0Which of these could be that of
(i) lemon juice, (ii) distilled water. (iii) 1 M sodium hydroxide solution, (iv) tomato juice

Section-C

Q.1 "Sulphuric acid is a dibasic acid". Write two reaction equations to justify this statement and name the reaction products in the two cases.
Q.2 Name the gas evolved when dilute sulphuric acid acts as sodium carbonate. Write the chemical equation for the reaction involved.

Q.3. What is the chemical name of washing soda ? Name the three chief raw materials used for making washing soda by the Solvay Process.

State the chemical property in each case on which the following uses of baking soda are based :as an antacid (ii) as a constituent of baking powder.

Q4. How is Plaster of Paris obtained ? What reaction is involved in the setting of a paste of plaster of Paris? Can we obtain POP from gypsum ? If so, mention all the relevant reactions.

ODM EDUCATIONAL GROUP Changing your Tomorrow