INDIAN SCHOOL NIZWA - WORKSHEET

GENERAL SCIENCE

CH: 4- ACIDS, BASES AND SALTS

Name: _____ Date:_____ Class: VII Sec: ___

I. Choose the correct answer.

1. Anu revisited a historical monument after 10 years. She noticed that the white monument had turned yellowish. Which event is most likely to have caused the change in colour of the monument?

   a) Flood
   b) Draught
   c) Acid rain
   d) Thunderstorm

2. A student studies that a substance that tastes sour is generally acidic in nature. The table lists a few substances found in the kitchen.
   Which of these substances are acidic in nature?

Curd
Banana
Orange
Corn

   a) Curd and Corn
   b) Corn and banana
   c) Orange and corn
   d) Orange and curd

3. A student took a half-filled test tube with dilute hydrochloric acid and a few drops of phenolphthalein in the solution. As he put a few drops of sodium hydroxide into the solution, it turned light pink. Further, he put a few extra drops of the acid and observed that the colour disappeared. What caused the colour to disappear from the solution?

   a) The volume of the solution increased
   b) The mixture turned into a neutral solution.
   c) The amount of acid in the solution decreased.
   d) The amount of base in the solution increased.

4. A scientist tests a soil sample from an uncultivated field and concludes that the soil is highly basic in nature. She suggests that adding organic matter to the soil could improve the quality of the soil. How does organic matter improve the quality of the soil?

   a) It releases acids which neutralise the soil.
   b) It traps water vapour and increases the moisture content.
   c) It makes the soil lighter so that it can be easily transported.
   d) It acts as food for the organisms already present in the soil.

5. Which of the following is an acid-base indicator?
   a) Vinegar
   b) Lime water
   c) Turmeric
   d) Baking soda

6. A substance 'X' is found in the milk of magnesia which on testing with red litmus turned blue.What is 'X'?
   a) An acid
   b) A base
   c) Water
   d) A salt

II. ACID + BASE ⟶ SALT + WATER

i. Name the above reaction. - _____

ii. Give an example of this type of reaction.

_____

_____.

III. Identify the acids and bases present in the following.

a) Baking soda - _____

b) Soap - _____

c) Lemon juice _ _____

d) Lime water- _____

e) Tomato - _____

f) Grapes - _____

g) Soda water- _____

h) Slaked lime - _____

IV. Identify the colour change of the following solution given below with phenolphthalein, litmus paper and China rose indicators.

a) Tamarind b) Milk of magnesia c) Curd d) Quick lime

e) Slaked lime f) Baking soda

Sample	Phenolphthalein	litmus	China rose
a) Tamarind			
b) Milk of magnesia			
c) Curd			
d) Quick lime			
e) Slaked lime			
f) Baking soda			

V. Find out the products of the following.

a) Potassium hydroxide + hydrochloric acid –

b) Nitric acid + magnesium hydroxide-

c) Magnesium hydroxide + Sulphuric acid -

d) Sodium hydroxide + phosphoric acid -

e) calcium hydroxide + sulphuric acid-