

### Multiple Choice Questions

1. What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- (i) The temperature of the solution increases
- (ii) The temperature of the solution decreases
- (iii) The temperature of the solution remains the same
- (iv) Salt formation takes place

- (a) (i) only
- (b) (i) and (iii)
- (c) (ii) and (iii)
- (d) (i) and (iv)

**Soln:**

Answer is (d) (i) and (iv)

**Explanation:**

When acid is mixed with a solution of base it results in neutralization reaction. Neutralization is an exothermic reaction which result in the formation salt.

2. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?

- (a) Baking powder
- (b) Lime
- (c) Ammonium hydroxide solution
- (d) Hydrochloric acid

**Soln:**

Answer is (d) Hydrochloric acid

**Explanation:**

If the solution turns red litmus to blue color then the solution should be basic in nature. Its effect can be neutralized by adding an acid hence (d) Hydrochloric acid is the answer.

3. During the preparation of hydrogen chloride gas on a humid day, the gas is usually passed through the guard tube containing calcium chloride. The role of calcium chloride taken in the guard tube is to

- (a) absorb the evolved gas
- (b) moisten the gas
- (c) absorb moisture from the gas
- (d) absorb  $\text{Cl}^-$  ions from the evolved gas

**Soln:**

Answer is (c) absorb moisture from the gas

**Explanation:**

Calcium is a good dehydrating agent. It has property to absorb moisture. Hence it is used as a desiccant to dry gases and Hydrocarbons in the industries.

**4. Which of the following salts does not contain water of crystallisation?**

- (a) Blue vitriol
- (b) Baking soda
- (c) Washing soda
- (d) Gypsum

**Soln:**

Answer is (b) Baking soda

**Explanation**

Baking sodas is white amorphous powder where as other salts given in the question are crystalline in nature.

**5. Sodium carbonate is a basic salt because it is a salt of**

- (a) strong acid and strong base
- (b) weak acid and weak base
- (c) strong acid and weak base
- (d) weak acid and strong base

**Soln:**

Answer is (d) weak acid and strong base

**Explanation:**

Salt formed by weak acid and strong base form strong salt. Here Sodium is a strong base and carbonate is a weak acid.

**6. Calcium phosphate is present in tooth enamel. Its nature is**

- (a) basic
- (b) acidic
- (c) neutral
- (d) amphoteric

**Soln:**

Answer is (a) basic

**Explanation:**

Phosphate ion present in calcium phosphate is a strong base and it form a strong salt. Hence calcium

phosphate is basic in nature.

**7. A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish-orange. Which of the following would change the colour of this pH paper to greenish-blue?**

- (a) Lemon juice
- (b) Vinegar
- (c) Common salt
- (d) An antacid

**Soln:**

Answer is (d) An antacid

**Explanation:**

Sample solution turn pH paper yellowish-orange which confirms the acidic nature of the sample. In order to make the color to greenish-blue we have to add an antacid.

**8. Which of the following gives the correct increasing order of acidic strength**

- (a) Water < Acetic acid < Hydrochloric acid
- (b) Water < Hydrochloric acid < Acetic acid
- (c) Acetic acid < Water < Hydrochloric acid
- (d) Hydrochloric acid < Water < Acetic acid

**Soln:**

Answer is a) Water < Acetic acid < Hydrochloric acid

**Explanation:**

Water is neutral in its pure form, Acetic acid is an organic acid which is weak in nature and Hydrochloric acid is a strong acid.

**9. If a few drops of a concentrated acid accidentally spills over the hand of a student, what should be done?**

- (a) Wash the hand with saline solution
- (b) Wash the hand immediately with plenty of water and apply a paste of sodium hydrogencarbonate
- (c) After washing with plenty of water apply solution of sodium hydroxide on the hand
- (d) Neutralise the acid with a strong alkali

**Soln:**

Answer is (b) Wash the hand immediately with plenty of water and apply a paste of sodium hydrogencarbonate

**Explanation:**

Washing affected hand with plenty of water will reduce the concentration of the acid. Remaining traces of the acid can be neutralized by applying a paste of Hydrogen carbonate which is basic in nature. Though NaOH is also a base but it is corrosive in nature hence it is not used to neutralize the acid.

**10. Sodium hydrogencarbonate when added to acetic acid evolves a gas. Which of the following statements are true about the gas evolved?**

- (i) It turns lime water milky
- (ii) It extinguishes a burning splinter
- (iii) It dissolves in a solution of sodium hydroxide
- (iv) It has a pungent odour

- (a) (i) and (ii)
- (b) (i), (ii) and (iii)
- (c) (ii), (iii) and (iv)
- (d) (i) and (iv)

**Soln:**

Answer is (a) (i) and (ii)

**Explanation:**

Reaction between Sodium hydrogencarbonate and acetic acid lead to evolution of carbon-di-oxide gas.  $\text{CO}_2$  turns the lime water milky and extinguish a burning splinter.

**11. Common salt besides being used in kitchen can also be used as the raw material for making**

- (i) washing soda
- (ii) bleaching powder
- (iii) baking soda
- (iv) slaked lime

- (a) (i) and (ii)
- (b) (i), (ii) and (iv)
- (c) (i) and (iii)
- (d) (i), (iii) and (iv)

**Soln:**

Answer is (a) (i) and (ii)

**12. One of the constituents of baking powder is sodium hydrogencarbonate, the other constituent is**

- (a) hydrochloric acid
- (b) tartaric acid
- (c) acetic acid
- (d) sulphuric acid

**Soln:**

Answer is (b) tartaric acid

### Explanation:

A Mild edible acid along with Sodium Hydrogen Carbonate is used to prepare baking powder. Here acetic acid or citric acid can also be used in place of tartaric acid.

**13. To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is**

- (a) acidic
- (b) neutral
- (c) basic
- (d) corrosive

### Soln:

Answer is c) Basic

### Explanation:

Teeth will be acidic in nature because of bacterial activity in mouth. To neutralize the acid toothpaste will be neutral in nature.

**14. Which of the following statements is correct about an aqueous solution of an acid and of a base?**

- (i) Higher the pH, stronger the acid
- (ii) Higher the pH, weaker the acid
- (iii) Lower the pH, stronger the base
- (iv) Lower the pH, weaker the base

- (a) (i) and (iii)
- (b) (ii) and (iii)
- (c) (i) and (iv)
- (d) (ii) and (iv)

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### Soln:

Answer is (d) (ii) and (iv)

### Explanation:

On a  $P^H$  scale acids are those whose  $P^H$  is below 7 lower is the PH stronger will be acid and similarly Bases are those whose  $P^H$  is more than 7. Higher is the  $P^H$  strong will be acid.

**15. The pH of the gastric juices released during digestion is**

- (a) less than 7
- (b) more than 7
- (c) equal to 7
- (d) equal to 0

### Soln:

Answer is (a) less than 7

**Explanation:**

The PH is acidic to below 7 to ensure easy breakdown of food particles. PH of stomach juices is usually 3.

**16. Which of the following phenomena occur, when a small amount of acid is added to water?**

- (i) Ionisation
- (ii) Neutralisation
- (iii) Dilution
- (iv) Salt formation

- (a) (i) and (ii)
- (b) (i) and (iii)
- (c) (ii) and (iii)
- (d) (ii) and (iv)

**Soln:**

Answer is (b) (i) and (iii)

**17. Which one of the following can be used as an acid–base indicator by a visually impaired student?**

- (a) Litmus
- (b) Turmeric
- (c) Vanilla essence
- (d) Petunia leaves

**Soln:**

Answer is (c) Vanilla essence

**Explanation:**

Vanilla essence can be used as an olfactory indicator hence it can be used as acid base indicator by visually impaired students.

**18. Which of the following substance will not give carbon dioxide on treatment with dilute acid?**

- (a) Marble
- (b) Limestone
- (c) Baking soda
- (d) Lime

**Soln:**

Answer is (d) Lime

**Explanation:**

Marble, Limestone and baking soda have carbonates which produces  $\text{CO}_2$  gas. Lime contains Hydroxide which will not produce  $\text{CO}_2$ .

19. Which of the following is acidic in nature?

- (a) Lime juice
- (b) Human blood
- (c) Lime water
- (d) Antacid

**Soln:**

Answer is (a) Lime juice

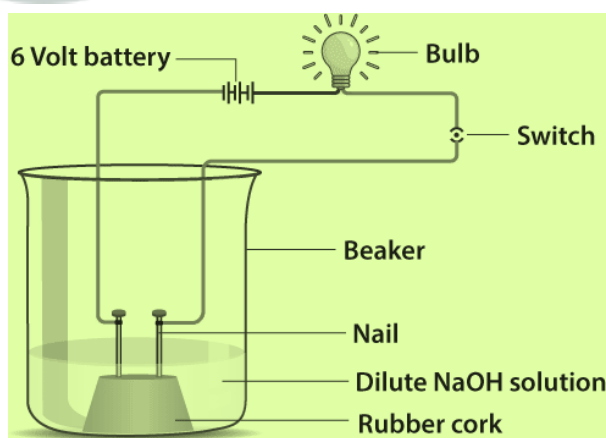
**Explanation:**

Lime juice has citric acid in it. Hence it is acidic in nature.

20. In an attempt to demonstrate electrical conductivity through an electrolyte, the following apparatus (Figure 2.1) was set up. Which among the following statement(s) is(are) correct?

- (i) Bulb will not glow because electrolyte is not acidic
- (ii) Bulb will glow because NaOH is a strong base and furnishes ions for conduction.
- (iii) Bulb will not glow because circuit is incomplete
- (iv) Bulb will not glow because it depends upon the type of electrolytic solution

- (a) (i) and (iii)
- (b) (ii) and (iv)
- (c) (ii) only
- (d) (iv) only



**Soln:**

Answer is (c) (ii) only

21. Which of the following is used for dissolution of gold?

- (a) Hydrochloric acid
- (b) Sulphuric acid
- (c) Nitric acid
- (d) Aqua regia

**Solution:**

Answer is (d) Aqua regia

**Explanation:**

Gold is a noble metal which will not react even with strong acids, hence aqua regia which is a mixture of Nitric and Hydrochloric acid in the ratio 1:3 is used for dissolution of gold.

22. Which of the following is not a mineral acid?

- (a) Hydrochloric acid
- (b) Citric acid
- (c) Sulphuric acid
- (d) Nitric acid

**Soln:**

Answer is (b) Citric acid

**Explanation:**

Citric acid is the organic acid hence it is the answer

23. Which among the following is not a base?

- (a) NaOH
- (b) KOH
- (c)  $\text{NH}_4\text{OH}$
- (d)  $\text{C}_2\text{H}_5\text{OH}$

**Soln:**

Answer is (d)  $\text{C}_2\text{H}_5\text{OH}$

**Explanation:**

$\text{C}_2\text{H}_5\text{OH}$  is an alcohol not a base

24. Which of the following statements is not correct?

- (a) All metal carbonates react with acid to give a salt, water and carbon dioxide
- (b) All metal oxides react with water to give salt and acid
- (c) Some metals react with acids to give salt and hydrogen
- (d) Some non metal oxides react with water to form an acid

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**Soln:**

Answer is (b) All metal oxides react with water to give salt and acid

**Explanation:**

Metal oxides are basic in nature hence they give alkaline solution when dissolved in water.

**25. Match the chemical substances given in Column (A) with their appropriate application given in Column (B)**

Column (A)	Column (B)
(A) Bleaching powder	(i) Preparation of glass
(B) Baking soda	(ii) Production of $H_2$ and $Cl_2$
(C) Washing soda	(iii) Decolourisation
(D) Sodium chloride	(iv) Antacid

- (a) A—(ii), B—(i), C—(iv), D—(iii)  
(b) A—(iii), B—(ii), C—(iv), D—(i)  
(c) A—(iii), B—(iv), C—(i), D—(ii)  
(d) A—(ii), B—(iv), C—(i), D—(iii)

**Soln:**

Answer is (c) A—(iii), B—(iv), C—(i), D—(ii)

**26. Equal volumes of hydrochloric acid and sodium hydroxide solutions of same concentration are mixed and the pH of the resulting solution is checked with a pH paper. What would be the colour obtained? (You may use colour guide given in Figure 2.2)**



- (a) Red  
(b) Yellow  
(c) Yellowish green  
(d) Blue

**Soln:**

Answer is (c) Yellowish green

### Explanation:

Here neutralization takes place between HCL and NAOH solution hence  $P^H$  will remain neutral which will be in the yellowish green zone in  $P^H$  paper.

**27. Which of the following is(are) true when HCl (g) is passed through water?**

- (i) It does not ionise in the solution as it is a covalent compound.
- (ii) It ionises in the solution
- (iii) It gives both hydrogen and hydroxyl ion in the solution
- (iv) It forms hydronium ion in the solution due to the combination of hydrogen ion with water molecule

- (a) (i) only
- (b) (iii) only
- (c) (ii) and (iv)
- (d) (iii) and (iv)

### Soln:

Answer is (c) (ii) and (iv)

### Explanation:

HCL is a strong acid which ionizes completely in water to produce Hydrogen as well as Hydrogen and chlorine. Hydrogen produces combine with water molecules to give Hydronium ions.

**28. Which of the following statements is true for acids?**

- (a) Bitter and change red litmus to blue
- (b) Sour and change red litmus to blue
- (c) Sour and change blue litmus to red
- (d) Bitter and change blue litmus to red

### Soln:

Answer is (c) Sour and change blue litmus to red

**29. Which of the following are present in a dilute aqueous solution of hydrochloric acid?**

- (a)  $H_3O^+ + Cl^-$
- (b)  $H_3O^+ + OH^-$
- (c)  $Cl^- + OH^-$
- (d) unionised HCl

### Soln:

Answer is (a)  $H_3O^+ + Cl^-$

### Explanation:

Acid produces Hydrogen which will combine with water molecule to produce Hydronium ion.

30. Identify the correct representation of reaction occurring during chloralkali process

- (a)  $2\text{NaCl(l)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(l)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$   
 (b)  $2\text{NaCl(aq)} + 2\text{H}_2\text{O(aq)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$   
 (c)  $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{aq}) + \text{H}_2(\text{aq})$   
 (d)  $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$

**Soln:**

Answer is (d)  $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$

### Short Answer Questions

31. Match the acids given in Column (A) with their correct source given in Column (B)

Column (A)	Column (B)
(a) Lactic acid	(i) Tomato
(b) Acetic acid	(ii) Lemon
(c) Citric acid	(iii) Vinegar
(d) Oxalic acid	(iv) Curd

**Soln:**

Column (A)	Column (B)
(a) Lactic acid	(iv) Curd
(b) Acetic acid	(iii) Vinegar
(c) Citric acid	(ii) Lemon
(d) Oxalic acid	(i) Tomato

Column (A)	Column (B)
(a) Lactic acid	(iv) Curd
(b) Acetic acid	(iii) Vinegar
(c) Citric acid	(ii) Lemon
(d) Oxalic acid	(i) Tomato

32. Match the important chemicals given in Column (A) with the chemical formulae given in Column (B)

Column (A)	Column (B)
(a) Plaster of Paris	(i) $\text{Ca(OH)}_2$
(b) Gypsum	(ii) $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$
(c) Bleaching Powder	(iii) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
(d) Slaked Lime	(iv) $\text{CaOCl}_2$

**Soln:**

Column (A)	Column (B)
(a) Plaster of Paris	(ii) $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$
(b) Gypsum	(iii) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
(c) Bleaching Powder	(iv) $\text{CaOCl}_2$
(d) Slaked Lime	(i) $\text{Ca(OH)}_2$

**33. What will be the action of the following substances on litmus paper? Dry HCl gas, Moistened NH<sub>3</sub> gas, Lemon juice, Carbonated soft drink, Curd, Soap solution.**

**Soln:**

Dry HCl gas- No effect

Moistened NH<sub>3</sub> gas- Turns litmus paper to blue colour

Lemon juice- Turns litmus paper to red colour

Carbonated soft drink- Turns litmus paper to blue colour

Curd- Turns litmus paper to red colour

Soap solution- Turns litmus paper to blue colour

**34. Name the acid present in ant sting and give its chemical formula. Also give the common method to get relief from the discomfort caused by the ant sting.**

**Soln:**

Ant sting release methanoic acid. Chemical formula of methanoic acid is HCOOH. If we rub baking soda on the affected area it can give relief from the discomfort caused by ant sting.

**35. What happens when nitric acid is added to egg shell?**

**Soln:**

Nitric acid dissolved egg shell which is made up of Calcium carbonate. Calcium carbonate on reacting with nitric acid yield Calcium Nitrate and carbon-di-oxide gas.

**36. A student prepared solutions of (i) an acid and (ii) a base in two separate beakers. She forgot to label the solutions and litmus paper is not available in the laboratory. Since both the solutions are colourless, how will she distinguish between the two?**

**Soln:**

Student can use Phenolphthalein indicator to check the nature of the solution.

**37. How would you distinguish between baking powder and washing soda by heating?**

**Soln:**

When we heat baking powder CO<sub>2</sub> is released which can be confirmed by passing evolved gas into lime water which will turn milky. This reaction will not happen when you heat washing soda.

**38. Salt A commonly used in bakery products on heating gets converted into another salt B which itself is used for removal of hardness of water and a gas C is evolved. The gas C when passed through lime water, turns it milky. Identify A, B and C.**

**Soln:**

Salt A is Baking soda (Sodium Hydrogen Carbonate) which will turn to Sodium carbonate( Salt B) on heating. Gas C turn lime water milky hence it must be CO<sub>2</sub>.

**39. In one of the industrial processes used for manufacture of sodium hydroxide, a gas X is formed as by product. The gas X reacts with lime water to give a compound Y which is used as a bleaching agent in chemical industry. Identify X and Y giving the chemical equation of the reactions involved.**

**Soln:**

X = Chlorine (Cl<sub>2</sub>)

Y = Bleaching powder (CaOCl<sub>2</sub>)

$\text{Ca(OH)}_2 (\text{s}) + \text{Cl}_2 (\text{g}) \rightarrow \text{CaOCl}_2 (\text{s}) + \text{H}_2\text{O}$  — Calcium oxychloride (bleaching powder)

**40. Fill in the missing data in the following table**

Name of the Salt	Formula	Salted Obtained from	
		Base	Acid
Ammonium chloride	NH <sub>4</sub> Cl	NH <sub>4</sub> OH	-
Copper sulphate	-	-	H <sub>2</sub> SO <sub>4</sub>
Sodium chloride	NaCl	NaOH	-
Magnesium nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub>	-	HNO <sub>3</sub>
Potassium sulphate	K <sub>2</sub> SO <sub>4</sub>	-	-
Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	Ca(OH) <sub>2</sub>	-

**Soln:**

Name of the Salt	Formula	Salted Obtained from	
		Base	Acid
Ammonium chloride	NH <sub>4</sub> Cl	NH <sub>4</sub> OH	HCl
Copper sulphate	CuSO <sub>4</sub>	Cu(OH) <sub>2</sub>	H <sub>2</sub> SO <sub>4</sub>
Sodium chloride	NaCl	NaOH	HCl
Magnesium nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub>	Mg(OH) <sub>2</sub>	HNO <sub>3</sub>
Potassium sulphate	K <sub>2</sub> SO <sub>4</sub>	KOH	H <sub>2</sub> SO <sub>4</sub>
Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	Ca(OH) <sub>2</sub>	HNO <sub>3</sub>

**41** What are strong and weak acids? In the following list of acids, separate strong acids from weak acids. Hydrochloric acid, citric acid, acetic acid, nitric acid, formic acid, sulphuric acid.

**Soln:**

Strong acids are those which get completely ionized and weak acids are those which get partially ionized.

Hydrochloric acid- Strong Acid

citric acid- Weak Acid

acetic acid- Weak Acid

nitric acid, - Strong Acid

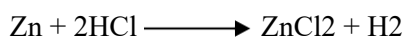
formic acid- Weak Acid

sulphuric acid- Strong Acid

**42.** When zinc metal is treated with a dilute solution of a strong acid, a gas is evolved, which is utilised in the hydrogenation of oil. Name the gas evolved. Write the chemical equation of the reaction involved and also write a test to detect the gas formed.

**Soln:**

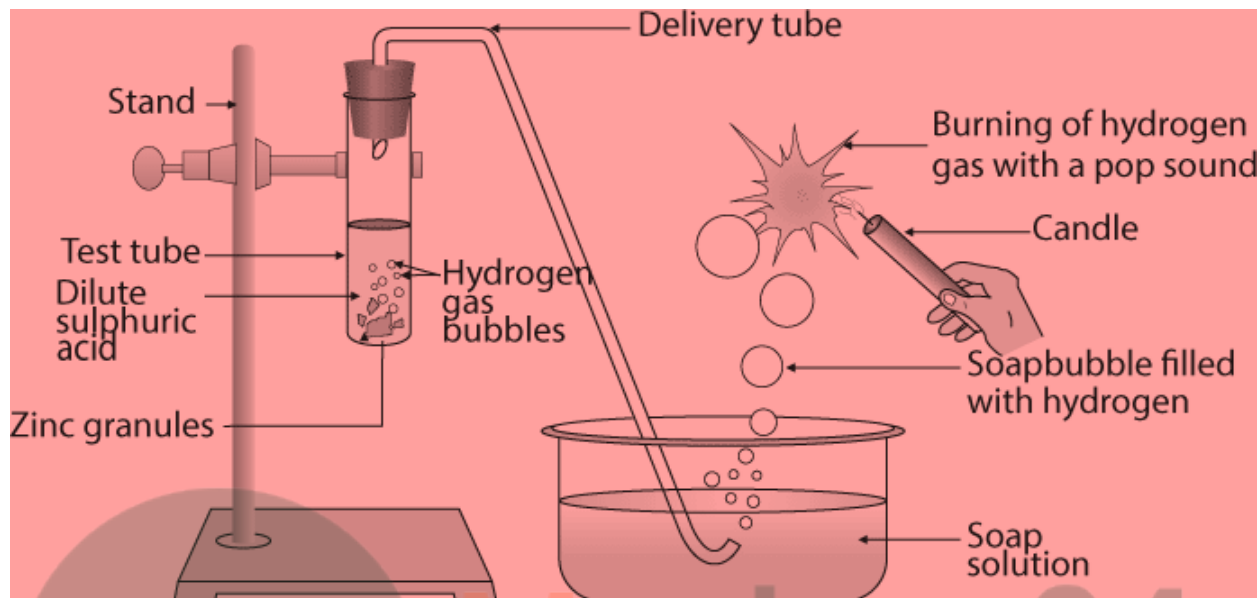
When Zinc reacts with Dilute acid solution, following reaction takes place Hydrogen gas is evolved



When Hydrogen gas is brought near Burning flame, pop pops up which is the confirmation for evolution of Hydrogen gas.

### Long Answer Questions

**43.** In the following schematic diagram for the preparation of hydrogen gas as shown in Figure 2.3, what would happen if following changes are made?



- (a) In place of zinc granules, same amount of zinc dust is taken in the test tube  
 (b) Instead of dilute sulphuric acid, dilute hydrochloric acid is taken  
 (c) In place of zinc, copper turnings are taken  
 (d) Sodium hydroxide is taken in place of dilute sulphuric acid and the tube is heated.

**Soln:**

- a) In place of Zinc granules if we use Zinc dust reaction speed increases  
 b) Instead of dilute sulphuric acid if we use dilute hydrochloric acid ZINC Chloride is formed  

$$\text{Zn} + 2\text{HCl} \longrightarrow \text{ZnCl}_2 + \text{H}_2$$
  
 c) If we use copper in place of Zinc there will be no reaction as copper will not react with dilute acids  
 d) Sodium Zincate is produced if we use NaOH solution in place of acid  

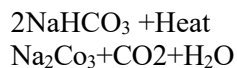
$$\text{Zn} + 2\text{NaOH} \longrightarrow \text{Na}_2\text{ZnO}_2 + \text{H}_2$$

**44. For making cake, baking powder is taken. If at home your mother uses baking soda instead of baking powder in cake,**

- (a) how will it affect the taste of the cake and why?  
 (b) how can baking soda be converted into baking powder?  
 (c) what is the role of tartaric acid added to baking soda?

**Soln:**

- a) If we use baking soda instead of baking powder taste of the cake will be bitter. Upon heating baking soda sodium carbonate will be formed which will make the cake taste bitter.



b) Baking soda can be converted into baking powder by adding an edible weak acid like tartaric acid.

c) When tartaric acid is dissolved in water it gives out Hydrogen ions. Hydrogen ions reacts with Sodium Carbonate to produce carbon di=oxide which will make the cake fluffy.

**45. A metal carbonate X on reacting with an acid gives a gas which when passed through a solution Y gives the carbonate back. On the other hand, a gas G that is obtained at anode during electrolysis of brine is passed on dry Y, it gives a compound Z, used for disinfecting drinking water. Identity X, Y, G and Z.**

**Soln:**

X is Calcium . When calcium carbonate reacts with HCl it gives out CO<sub>2</sub> gas.



When CO<sub>2</sub> is passed into lime water it turns milky due to formation of Calcium carbonate.

Hence solution Y is lime water

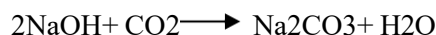
When chlorine gas is passed on dry lime water it gives bleaching powder which is used for disinfecting water.

**46. A dry pellet of a common base B, when kept in open absorbs moisture and turns sticky. The compound is also a by-product of chloralkali process. Identify B. What type of reaction occurs when B is treated with an acidic oxide? Write a balanced chemical equation for one such solution.**

**Soln:**

A compound which is a byproduct of chloralkali process is NaOH. Hence compound B is NaOH.

When NaOH is treated with acidic oxide neutralization process occurs. For Example If NaOH is treated with carbon-di-oxide, it gives Sodium carbonate.



**47. A sulphate salt of Group 2 element of the Periodic Table is a white, soft substance, which can be moulded into different shapes by making its dough. When this compound is left in open for some time, it becomes a solid mass and cannot be used for moulding purposes. Identify the sulphate salt and why does it show such a behaviour? Give the reaction involved.**

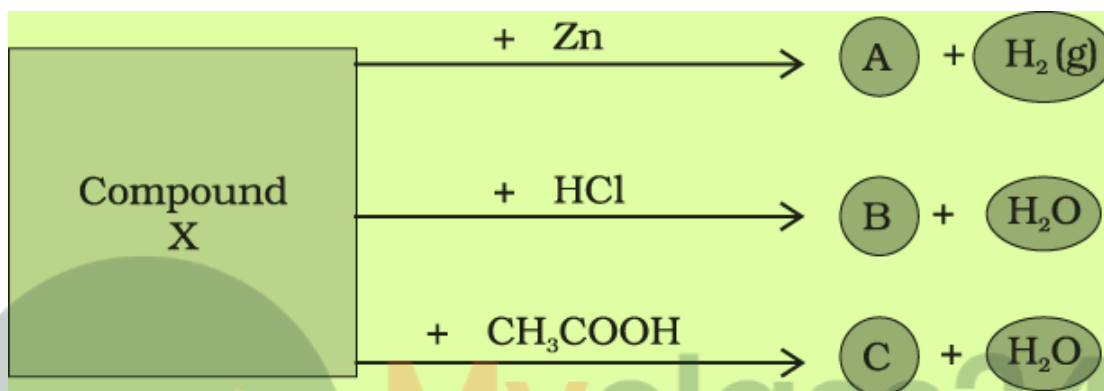
**Soln:**

The sulphate salt should be calcium sulphate which is white and soft substance. Calcium sulphate is popularly known as plaster of paris.

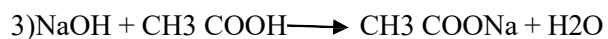
## Class 10 Science Chapter 2 Acids, Bases and Salts

Plaster of paris has half molecule of water of crystallization. When we leave plaster of paris open for some time, it absorbs moisture to gain number of molecules of crystallization. This newly formed compound is called Gypsum which is hard to make moulds.

48. Identify the compound X on the basis of the reactions given below. Also, write the name and chemical formulae of A, B and C.



Soln:



By following reaction it is confirmed that compound X is Sodium Zincate