



### **CHEMISTRY**

# **BOOKS - MODERN PUBLICATION**

# **ACID, BASES AND SALTS**

# Example

**1.** Give two examples of strong acids and strong bases.



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2. Name three acids obtained from natural sources.



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**3.** A student dropped a few pieces of marble in dilute hydrochloric acid contained in a test tube. The evolved gas was passed through lime water. What change would be observed in lime water? Write the balanced chemical equations for both the change observed?



**4.** During summer season, a milkman usually adds a very small amount of baking soda to fresh milk. Give one reasons.



**5.** Why does distilled water not conduct electricity, whereas rain water does ?



6. Dry hydrogen chloride gas does not turn blue litmus red whereas hydrochloric acid does. Give one reason. **Watch Video Solution** 7. Name the gas evolved when dilute HCl reacts sodium hydrogen carbonate. How is it recognized? **Watch Video Solution 8.** What effect does the concentration of  $H^+$  (aq) ions have on the nature of the solution? **Watch Video Solution** 9. Fresh milk has a ph of 6. how do you think the ph will change as it turns into curds? Explain your answer.



**10.** Which one of these has a higher concentration of  $H^+$  ions? 1M HCl or 1M  $CH_3COOH$ ?



11. Two solutions A and B have pH 3 and 5 respectively. Which of the two solutions has more hydrogen ion concentration and which one is more acidic? Give reason for your answer.



**12.** State what does pH of a solution signify? Three solutions A,B and C have pH values of 6,2 and 10 respectively. Which of these solutions is highly acidic? Which solution will turn red litmus blue?



**13.** Calculate the pH value of the followings :

0.001 M HCl



- **14.** Calculate the pH of the following solutions:
  - 0.02 mol of hydrochloric acid in 2L of solution.



**15.** Determine the pH of the solution when hydrogen ion concentration is  $1.0 imes 10^{-9} M$ 





**16.** Determine the pH of the solution when hydrogen ion concentration is

 $1.0\times 10^{-5}M.$ 



**17.** pH of a solution changes from 6 to 5. what changes do you expect in hydrogen ion concentration?



**18.** The pH value of three acidic solutions having equal molar concentrations are

Vinegar=3.2, Coca cola=5.90, Beer=4.8

Arrange these acids in order of increasing acid strength.



19. What is the pH of 0.1M NaOH solution?



20. Write the formulae of the following salts: Choose the salts which have pH<7, pH>7, pH=7 Copper sulphate. **Watch Video Solution** 21. Write the formulae of the following salts: Choose the salts which have pH<7, pH>7, pH=7 Potassium carbonate **Watch Video Solution** 22. Write the formulae Choose the pH pH<7, pH>7, pH=7 Sodium hydrogen carbonate **Watch Video Solution** 

23. Write the formulae and Choose the pH

pH<7, pH>7, pH=7

Sodium chloride



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24. Write the formulae and Choose the pH

pH<7, pH>7, pH=7

Sodium acetate



**Watch Video Solution** 

25. Write the formulae and Choose the pH

pH<7, pH>7, pH=7

Aluminium chloride



**Watch Video Solution** 

**26.** A white powder having an odour of chlorine is used to remove yellowness of which cloths in laundries. Name this powder, how is the prepared? Write the chemical reaction involved in its preparation?



27. Write the chemical equation for the preparation of polyethene.



**28.** Why is Plaster of Paris written as  $CaSO_4$ .  $\frac{1}{2}H_2O$ ? How is its possible to have half a water molecule attached to  $CaSO_4$ ?



**29.** Why is sodium hydrogen carbonate an essential ingredient in antacids?



30. When electricity is passed through an aqueous solution of sodium chloride, three products are obtained. Why is it's the process called chlor alkali?



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31. Baking soda is used in small amount in making bread and cake. It helps to make this soft and spongy and aqua solution of baking soda turns red litmus blue. It is also used in Soda acid fire extinguisher. Use this information to answer the following questions How does baking soda help to make cakes and bread soft and spongy.



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32. Baking soda is used in small amount in making bread and cake. It helps to make this soft and spongy and aqua solution of baking soda turns red litmus blue. It is also used in Soda acid fire extinguisher. Use

this information to answer the following questions



HOw does it help in extinguishing fire?

**33.** Baking soda is used in small amount in making bread and cake. It helps to make this soft and spongy and aqua solution of baking soda turns red litmus blue. It is also used in Soda acid fire extinguisher. Use this information to answer the following questions

Is the pH value of baking soda solution lesser than or greater than 7?



**34.** You have been provided with three test tubes one of them contains distilled water and the other two contain an acidic solution and a basic soution respectively. If you are given only red litmus paper, how will you identify the contents of each test tube?

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**35.** Why should curd and sour substances not be kept in brass and copper vessels?



**36.** Which gas is usualy libertad when an acid reacts with a metal? Illustrate with an example. How will you test for the presence of this gas?



**37.** Metal compound A reacts with dilute hydrochloric acid to produce effervescence the gas evolved exinguishes a burning candle write a balanced chemical equation for the reaction if one the compunds formed is calcium chloride.



**38.** Why do  ${\rm HCI}$ ,  $HNO_3$  etc, show acidic characters in aqueous solutions while solutions of compunds like alcohol and glucose do not show acidic character?



39. Why does an aqueous solution of an acid conduct electricity?



**40.** Why does dry HCI gas not change the colour on the dry litmus paper?



**41.** while diluting an acid, Why is it recommended that the acid should be added to water?



**42.** How is the concentration of hydronium ions  $\left(H_3O^+\right)$  affected when a solution of an acid is diluted ?



**43.** How is the concentration of hydroxide ions(OH) affected when excess base is dissolved in a solution of sodium hydroxide?



**44.** You have two solutions a and b the ph of solution a is 6 and ph of solution b is 8. which solution has more hydrogen ion concentration? Which of this is acidic and which one is basic?



**45.** What effect does the concentration of  $H^+(\operatorname{aq})$  ions have on the nature of the solution?



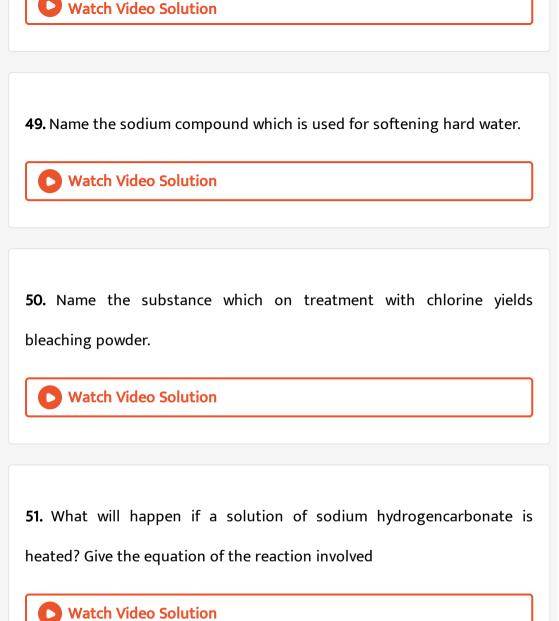
**46.** Do basic solution also have $H^+$  (aq) ions? If yes, then why are these basic?



**47.** Under what soil condition do you think farmer would treat the soil of his fields with quick lime (calcium oxide ) or slaked lime (calcium hydroxide) or chalk (calcium carbonate)?



**48.** What is the common name of the compound `CaOCl\_2?



52. Write an equation to show the reaction between plaster of paris and water.



53. A solution turns red litmus blue, its pH is likely to be

- A. 1
- B. 4
- C. 5

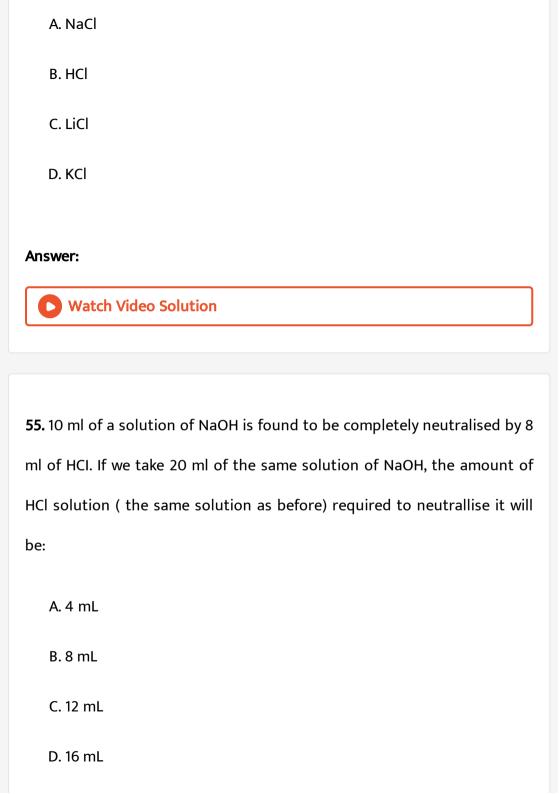
D. 10

# Answer:



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54. A solution reacts with crushed egg-shells to give a gas that turns lime water milky the solution contains:



# Answer: Watch Video Solution 56. Which one of the following types of medicines is used for treating indegestion? A. Antibiotic

57. Write word equations and then balanced equations for the reactions

taking place when -dilute sulphuric acid reacts with zinc granules.

B. Analgesic

C. Antacid

D. Antiseptic

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Answer:

**58.** Write word equation and balance equation for the reactions taking place when: dilute hydrochloric acid reacts with magnesium ribbon



**59.** Write word equations and then balanced equations for the reactions taking place when -dilute sulphuric acid reacts with aluminium powder.



**60.** Write word equations and then balanced equations for the reaction taking place, when dilute hydrochloric acid reacts with iron filings.



61. Compounds such as alchols and glucose also contain hydrogen but are not categorised as acids. Describe an activity to prove it,

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**62.** Why does distilled water not conduct electricity, whereas rain water does?



**63.** Why do acids not show acidic behaviour in the absence of water?



**64.** Five solutions A, B, C, D and E when teasted with universal indicator showed ph as 4, 1, 11, 7, and 9 respectively, which solution is: neutral?

stronly alkaline?

stongly acidic?

weakly acidic?

weakly alkaline?: arrange the ph in increasing order of hydrogen-ion concentration



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65. Equal lenghts of magnesium ribbons are taken is test tubes a and b hydrochloric acid (HCl) is added to test tube a, while acetic acid  $(CH_3COOH)$  is added to test tube b. amount and concentration taken for both the acids are same. In which test tube wil the fizzing occur more vigorously and why?



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66. Fresh milk has a ph of 6. how do you think the ph will change as it turns into curds? Explain your answer.



**Watch Video Solution** 

67. A milkman adds a very small amount of baking soda to fresh milk.

why does he shift the ph of the fresh milk from 6 to slightly alkaline?

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**68.** A milkman adds a very small amount of baking soda to fresh milk.

Why does this milk take a long time to set as curd?



**69.** Plaster of paris should be stored in a moisture-proof container explain why?



70. What is a neutralisation reaction? Give two examples



Water video Solution

71. Give two important uses of washing soda and baking soda.



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**72.** Match the acids given in column A with their correct source give in column B

Column (A)		Column (B)	1
(a) Lactic acid	(i)	Tomato	
(b) Acetic acid	(ii)	Lemon	
(c) Citric acid	(iii)	Vinegar	
(d) Oxalic acid	(iv)	Curd	



**73.** 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)	Ca(OH) <sub>2</sub>	
(b)	Gypsum	(ii)	CaSO <sub>4</sub> .1/2 H <sub>2</sub> O	
(c)	Bleaching-Powder	(iii)	CaSO <sub>4</sub> 2H <sub>2</sub> O	
(d)	Slaked Lime	(ir)	CaOC1 <sub>2</sub>	



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**74.** What will be the action of the following substances on litmus paper? Dry HCI gas, Moistened  $NH_3$  gas, Lemon juice, Carbonated soft drink, Curd, Soap solution.



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**75.** 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.



**Watch Video Solution** 

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



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



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



**79.** 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.



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



# 81. Fill in the missing data in the following table:

	Salt obtained from			
Name of the salt	Formula	Base	Acid	
(i) Ammonium chloride	NH <sub>4</sub> CI	NH <sub>4</sub> OH	-	
(ii) Copper sulphate	_	_	H2504	
(iii) Sodium chloride	NaCl	NaOH	-	
(iv) Magnesium nitrate	Mg (NO <sub>3</sub> ) <sub>2</sub>	-	HNO,	
(v) Potassium sulphate	K <sub>2</sub> SO <sub>4</sub>	-	-	
(vi) Calcium nitrate	Ca(NO <sub>1</sub> ),	Ca(OH),	_	



**82.** What are strong acid 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.



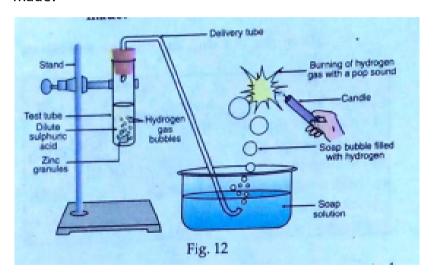
**83.** When zinc metal is treated with a dilute solution of a strong acid, a gas is evolved, which is utilised in the hydrogenation of oil. Name the gas

evolved. Write the chemical equation of the reaction involved and also write a test to detect the gas formed.



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**84.** In the following schematic diagram of the preparation of hydrogen gas as shown in figure 12, what would happen if following changes are made?

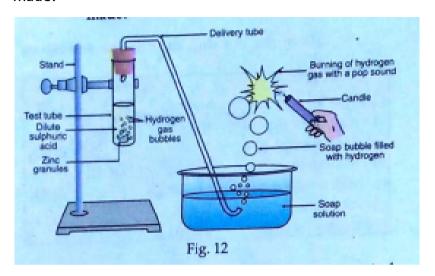


In place of zinc granules, same amount of zinc dust is taken in the test tube.



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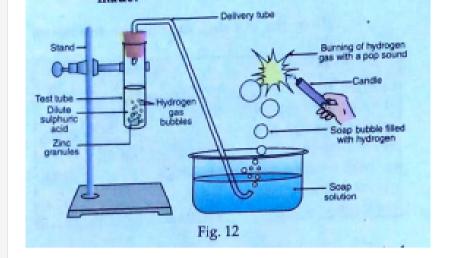
**85.** In the following schematic diagram of the preparation of hydrogen gas as shown in figure 12, what would happen if following changes are made?



Instead of dilute sulphuric acid, dilute hydrochloric acid is taken.



**86.** In the following schematic diagram of the preparation of hydrogen gas as shown in figure 12, what would happen if following changes are made?

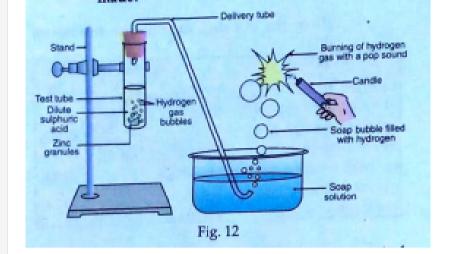


In place of zinc, copper turnings are taken



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87. In the following schematic diagram of the preparation of hydrogen gas as shown in figure 12, what would happen if following changes are made?



Sodium hydroxide is taken in place of dilute sulphric acid and the tube is heated.



**Watch Video Solution** 

88. What is the difference between baking soda and baking powder?



**Watch Video Solution** 

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

how can baking soda be converted into baking powder?



**90.** Baking soda is used for-.



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



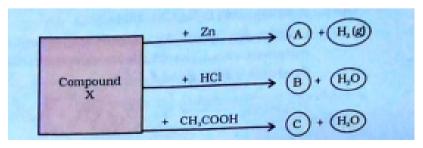
**92.** A dry pellet of a common base B, when kept in open absorbs moisture and turns sticky. The compound is also a by-product of chloralkali process. Identify B. What type of reaction occurs when B is treated with an acidic oxide? Write a balanced chemical equation for one such solution.

**93.** A sulphate salt of the group 2 element of the periodic table is a white, soft substance, which can be molded 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 molding purposes. Identify the sulphate salt and why does the show such a behaviour? give one reaciton involved.



**94.** Identify the compound X on the basis of the reactions given below:

Also, write the name and chemical formulae of A,B and C.





**95.** What is inducer in the lac operon? How does it ensure the "switching on" or of genes?



**96.** What is baking powder? How does it make the cake soft and spongy?



**97.** What is the meant by water by crystallisation in a substance? How would you show that blue copper sulphate crystals contain water of crystallisation?



98. Write the chemical formula for washing soda. How is it be obtained from baking soda? Name one industrial use of washing soda other than washing clothes.



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99. For what purpose yeast is used?



**Watch Video Solution** 

100. What is the formula of plaster of paris? How is it prepred? State the common and the chemical names of the compound formed when plaster of paris is mixed with water.



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**101.** A compound which is prepared from gypsum has the property of hardening when mixed with a proper quantity of water. Identify the compound. Write the chemical equation for its preparation. For what purpose is its used in hospitals?



**102.** Why does tooth decay start when the pH of the mouth is lower than



5.5?

**103.** What happens when solutions of sodium hydrogen carbonate is heated?



**104.** Write the chemical equations for the reaction involved in the formation of sodium carbonate.



**105.** Name the compound of calcium used for disinfecting drinking water. Give its chemical formula.



106. Which bases are called alkalis? Give an example of alkali.



**107.** Write the name and chemical formula of the products formed by heating gypsum at 373K?



**108.** The pH of sample of vegetable soup was found to be 6.5. how is this soup likely to taste?



**109.** Write the name and chemical formula of the main product formed by heating baking soda.



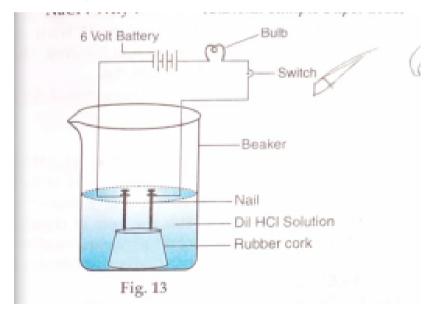
110. A drop of litmus solution is added to each of the four solutions given below. State the colour all litmus solution observed in each: soap solution sodium carbonate solution, vinegar, lemon juice.



111. An appratus was set up as shown in the figure. It was observed that when an aqueous solution of HCl was taken in the beaker and the circit was closed, the bulb in the circuit began to glow, but it did not glow when the experiment was repeated with glucose solution. what could be the reason?

Would the bulb glow if the same experiment is repeated with an aqueous solution of

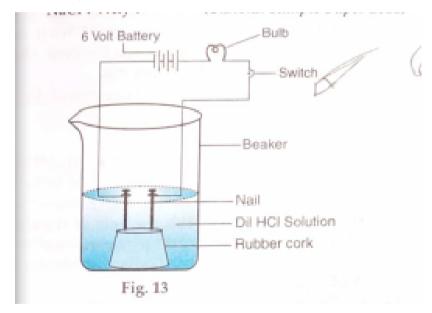
### NaOH? why?



112. An appratus was set up as shown in the figure. It was observed that when an aqueous solution of HCl was taken in the beaker and the circit was closed, the bulb in the circuit began to glow, but it did not glow when the experiment was repeated with glucose solution. what could be the reason?

Would the bulb glow if the same experiment is repeated with an aqueous solution of

### NaCl? why?





113. Give reasons for the following: Tooth pastes are used to prevent tooth decay. **Watch Video Solution** 114. Give reasons for the following: Adding baking powder to cake makes it spongy and soft. **Watch Video Solution** 115. Why does dry HCI gas not change the colour on the dry litmus paper? **Watch Video Solution** 116. What is meant by water of crystallistaion? **Watch Video Solution** 

**117.** Blue colour of copper sulphate crystals is due to water of cystallistation. Describe an activity with diagram to show it.



**118.** Name any two other salts along with their chemical formulae which contain water of crystallisation?



**119.** A metal carbonate X, and a metal bicarbonate Y on reacting with an acid gives a gas which turns lime water milky.

Identify the gas, compound X and Y.



**120.** A metal carbonate X, and a metal bicarbonate Y on reacting with an acid gives a gas which turns lime water milky.

Write the chemical equatins for the reaction of X and Y with the acid.



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**121.** A metal carbonate X, and a metal bicarbonate Y on reacting with an acid gives a gas which turns lime water milky.

Identify the gas, compound X and Y.



**Watch Video Solution** 

**122.** A metal carbonate X, and a metal bicarbonate Y on reacting with an acid gives a gas which turns lime water milky.

What would happen if you pass excess of this gas through water? Write

the chemical equation for it?



**123.** When electricity is passed through a common salt solution, sodium hydroxide is produced along with the liberation of two gases 'X' and 'Y' The gas X burns with a pop sound whereas 'Y' is used for disinfecting drinking water.

Identify X and Y.



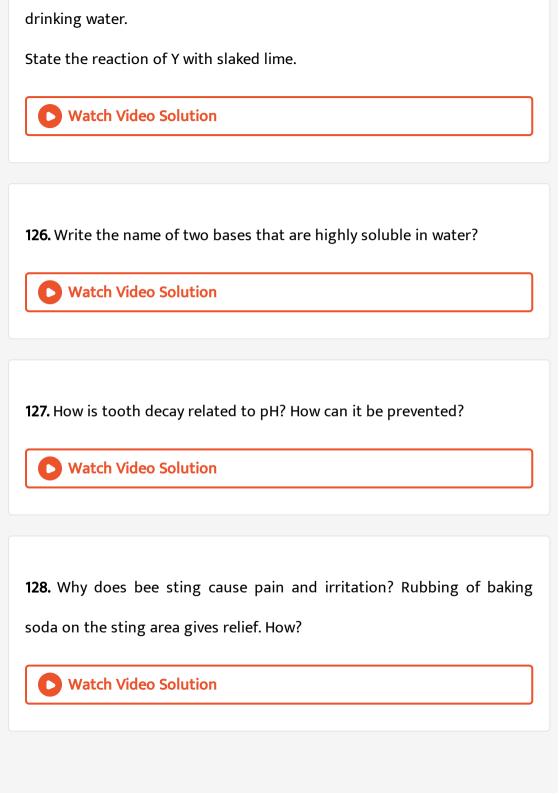
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**124.** When electricity is passed through an aqueous solution of sodium chloride, three products are obtained. Why is it's the process called chlor alkali?



**Watch Video Solution** 

**125.** When electricity is passed through a common salt solution, sodium hydroxide is produced along with the liberation of two gases 'X' and 'Y' The gas X burns with a pop sound whereas 'Y' is used for disinfecting



**129.** You have two solutions a and b the ph of solution a is 6 and ph of solution b is 8. which solution has more hydrogen ion concentration? Which of this is acidic and which one is basic?



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**130.** You have two solutions a and b the ph of solution a is 6 and ph of solution b is 8. which solution has more hydrogen ion concentration? Which of this is acidic and which one is basic?



**131.** Why is HCl a stronger acid than acetic acid? Explain.



**132.** Identify the compound of calcium which is yellowish white powder and is used for disinfecting drinking water. Write its chemical name and formula. How is it manufactured? Write the chemical equation for the reaction involved. Also list two other uses of the compound.



133. Write other balanced chemical equation of chlor alkali process.



**134.** Write the monomers and chemical equation for the preparation of Nylon-66.



**135.** State the number of water molecules present in crystals of washing soda and plaster of paris. What are these water molecules called as?



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**136.** 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) Ca(OH) <sub>2</sub>
(b) Gypsum	(ii) CaSO <sub>4</sub> -1/2 H <sub>2</sub> O
(c) Bleaching-Powder	(iii) CaSO <sub>4</sub> -2H <sub>2</sub> O
(d) Slaked Lime	(ir) CaOC1 <sub>2</sub>



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**137.** Write the chemical equation for the action of atmosphere  $CO_2$  gas on bleaching powder when exposed in open.



**138.** Which one of these has a higher concentration of  $H^{\,+}$  ions? 1M HCl or 1M  $CH_3COOH$ ?



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139. The crystals of compound A on keeping in air get converted into a white powder. Its solution in water gives blue colour with red litmus. It is used to remove permanent hardness of water.

Identify the substance. Write chemical formula of its crystalline form.



**Watch Video Solution** 

140. The crystals of compound A on keeping in air get converted into a white powder. Its solution in water gives blue colour with red litmus. It is used to remove permanent hardness of water.

Write two main uses of the substance.



**141.** The crystals of compound A on keeping in air get converted into a white powder. Its solution in water gives blue colour with red litmus. It is used to remove permanent hardness of water.

Write two main uses of the substance.



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**142.** A substance X used as a antacid reacts with hydrochloric acid to produce a gas Y which is used in fire exitinguishers.

Name the substance X and Y.



**Watch Video Solution** 

**143.** A substance X used as a antacid reacts with hydrochloric acid to produce a gas Y which is used in fire exitinguishers.

Write a balanced equation of the reaction of X with hydrochloric acid?



**144.** Explain why an aqueous solution of sodium sulphate is neutral while an aqueous solution of sodium carbonate is basic in nature.



145. Why does dry HCI gas not change the colour on the dry litmus paper?



146. State reasons for the following:
alcohol and glucose also contain hydrogen, but do not conduct electricity.



**147.** How is the concentration of hydronium ions  $\left(H_3O^+\right)$  affected when a solution of an acid is diluted ?



148. Write balanced chemical equations for the following statements:

NaOH solution is heated with zinc granules.



149. Write balanced chemical equations for the following statements:

Excess of carbon dioxide gas is passed through lime water.



**150.** Write balanced chemical equations for the following statements:

Dilute sulphuric acid reacts with sodium carbonate.



151. Write balanced chemical equations for the following statements: Egg shells are dropped in hydrochloric acid. **Watch Video Solution** 152. Write balanced chemical equations for the following statements: Copper oxide reacts with dilute hydrochloric acid. **Watch Video Solution** 153. Write a chemical equation to describe how bakin g soda is produced on a large scale. Also write the chemical name of the products obtained. **Watch Video Solution 154.** Which of the following is not a antacid? **Watch Video Solution** 

**155.** Name the two main consituents of baking powder.



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**156.** Which number in each of the following pairs is to the right of the other on the number line?

4,9

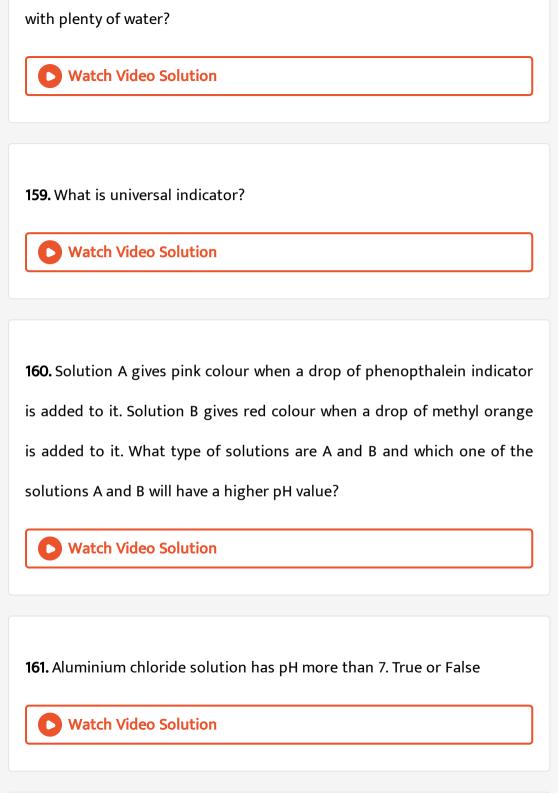


157. Give three practical applications of neutralisation reaction.



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**158.** When soap is rubbed on a stain curry on a white cloth, why does it becomes reddish brown and turns yellow again when the cloth is washed



162. The blue colour of crystals of a substance changed on heating in a closed test tube but the colour was regained after some time on cooling.

Name the substance and write its chemical formula. Explain the phenomenon involved.



**163.** Write name and chemical formula of two such compounds whose one formula unit is associated with 10 and 2 water molecules respectively.



**164.** Write the chemical formula of hydrated copper sulphate and anhydrous copper sulphate. Give an activity to illustrate how these two are interconvertible



<b>165.</b> Write chemical names and formulae of plaster of paris and gypsum.
Watch Video Solution
<b>166.</b> Acid and base react to form salt and water. This reaction is called:
Watch Video Solution
<b>167.</b> An acid and a base react to form a salt
What substance other than a salt is always formed when an acid reacts
with a base?
Watch Video Solution
<b>168.</b> An acid and a base react to form a salt
Is the reaction exothermic or endothermic?
Watch Video Solution

**169.** A student tested some solutions with universal indicator paper and wrote down their pH values are:

1,5,7 and 13 but the forgot to write the names of the solutions. Can you help him by matching the pHs to the correct solution:

Solution tested	pH
Distilled water	
Sulphuric acid	CAMPINE NO.
Sodium hydroxide	
Vinegar	I STATE



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170. A substance 'S' is used as a building material and is insoluble in water. When reacted with dil  $H_2SO_4$  it produces a gas 'X' which turned lime water milky. When the liberated gas 'K' passed in excess, the milkiness disappeared. Write the name and chemical formula of S and its reactions will dil H2SO4, name the acid and base from which the substance 'S' is made.



171. The pH of rainwater collected from two cition P and Q was formed to be 5 and 6 respectively.

Water of which city is more acidic?



**Watch Video Solution** 

172. The pH of rainwater collected from two cities P and Q was formed to be 5 and 6 respectively.

If 100 mL of rainwater of city P is diluted to 1000 mL by adding distilled water, will its pH increases or decrease?



**Watch Video Solution** 

173. The pH of rainwater collected from two cition P and Q was formed to be 5 and 6 respectively.

Water of which city is more acidic?



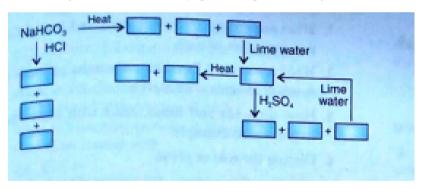
**174.** The pH of rainwater collected from two cities P and Q was formed to be 5 and 6 respectively.

If 100 mL of rainwater of city P is diluted to 1000 mL by adding distilled water, will its pH increases or decrease?



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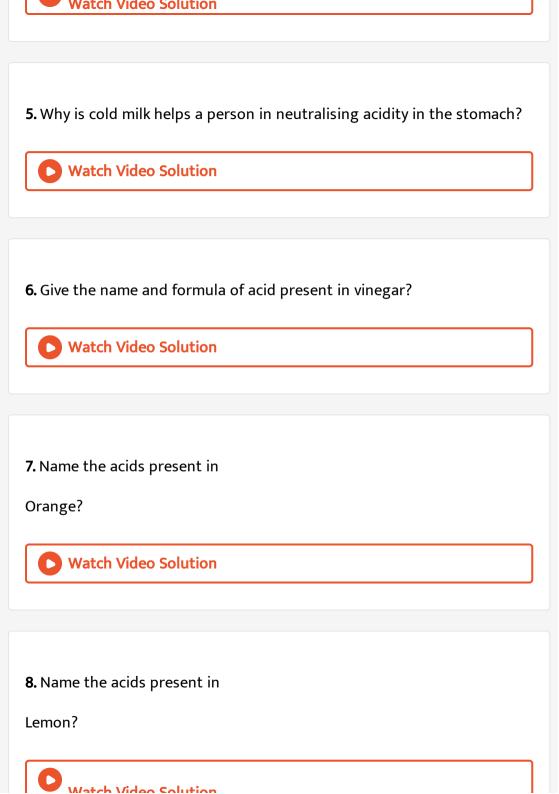
### **175.** Complete the boxes by guessing the compounds:







1. Name the gas produced when Sodium carbonate reacts with hydrochloric acid. **Watch Video Solution** 2. Name the gas produced when Magnesium carbonate reacts with hydrochloric acid. Write their chemical reactions. **Watch Video Solution** 3. Name an indicator which is red in acid solution but turns blue in basic solution **Watch Video Solution** 4. Name one strong and one weak acid.



Watch video Solution
9. Name the acids present in
Tomatoes.
Watch Video Solution
Water video Soldtion
10. The pH of fresh milk is 6. will its pH value increase or decrease when it
changes into curd? Why?
changes into cara. Why.
Watch Video Solution
Watch Video Solution
11. An acidic solution containsions.
Watch Video Solution
12. A basic solution containsions.
IZ. A Dasic solution containsIons.
Watch Video Solution

13. Name two acid base indicators?



Watch Video Solution

14. The pH values of some substances are given below:(i)Apples: 5.0-6.5(ii)

Onion: 6.0-7.0(iii)Mint: 7.0-8.0

Which of these are most (i) acidic (ii)basic?



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**15.** What is the pH of an acid having  $\left\lceil H^{\,+} 
ight
ceil = 10^{-3} M$ 



**Watch Video Solution** 

**16.** Will the  $OH^-$  ions concentration increase or decrease if a 1M NaOH solution is diluted with water?



17. Two solutions A and B have pH of 6 and 9 respectively. Which solution will be basic in nature?



18. Four test tubes A,B,C and D contain solutions of pH 3.0, 5.0, 6.0 and 6.5.

Arrange these in decreasing order of

 $H_3O^+ions$ 



19. Four test tubes A,B,C and D contain solutions of pH 3.0, 5.0, 6.0 and 6.5.

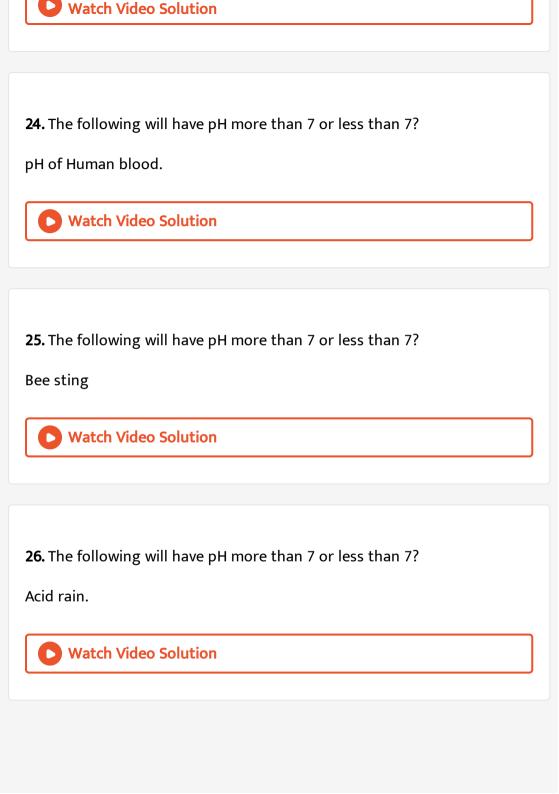
Arrange these in decreasing order of

acidic characters



20. Which of the following have large pH values:  $1M CH_3COOH$  or 1M HCl**Watch Video Solution** 21. Which of the following have large pH values: 1M HCl or 1M NaOH **Watch Video Solution** 22. Which of the following have large pH values: 1M HCl or 0.01 M HCl **Watch Video Solution** 23. The following will have pH more than 7 or less than 7?

Saliva produced in the mouth by salivary glands.



27. The following will have pH more than 7 or less than 7?

Bee sting



**Watch Video Solution** 

#### 28. Complete the following table

and the state of the	Colour in				
Substance	Blue litmus solution	Methyl orange	Phenol- phthalein	pH value <7 or >7	
1. Acetic acid					
2. Magnesium hydroxide					
3. Lemon juice					
4. Hydrochloric acid					
5. Baking soda					



**Watch Video Solution** 

**29.** Write the approximate colour of the universal indicator with the solutions having the given pH values.

pH	Colour	pH	Colour
1		9	
5		10	
7		13	



# **30.** The following data about the pH of different solutions are given:

Substance	pН	Substance	pН
A. Vinegar	2.4–3.4	D. 0.1 M NH <sub>3</sub> (household ammonia)	11.6
B. Coffee	4.5-5.5	E. Milk of magnesia	10
C. Tomato juice	4.0-4.4	F. Battery acid	0.5

Which solution is most acidic?



### 31. The following data about the pH of different solutions are given:

Substance	pН	Substance	pН
A. Vinegar	2.4–3.4	D. 0.1 M NH <sub>3</sub> (household ammonia)	11.6
B. Coffee	4.5-5.5	E. Milk of magnesia	10
C. Tomato juice	4.0-4.4	F. Battery acid	0.5

Which solution is most basic?



**Watch Video Solution** 

# **32.** The following data about the pH of different solutions are given:

Substance	pН	Substance	pН
A. Vinegar	2.4-3.4	D. 0.1 M NH <sub>3</sub> (household ammonia)	11.6
B. Coffee	4.5-5.5	E. Milk of magnesia	10
C. Tomato juice	4.0-4.4	F. Battery acid	0.5

Which substance in the above list is used as an antacid?



## **33.** The following data about the pH of different solutions are given:

Substance	pН	Substance	pН
A. Vinegar	2.4–3.4	D. 0.1 M NH <sub>3</sub> (household ammonia)	11.6
B. Coffee	4.5-5.5	E. Milk of magnesia	10
C. Tomato juice	4.0-4.4	F. Battery acid	0.5

Which solution can be used to treat wasp stings?



**Watch Video Solution** 

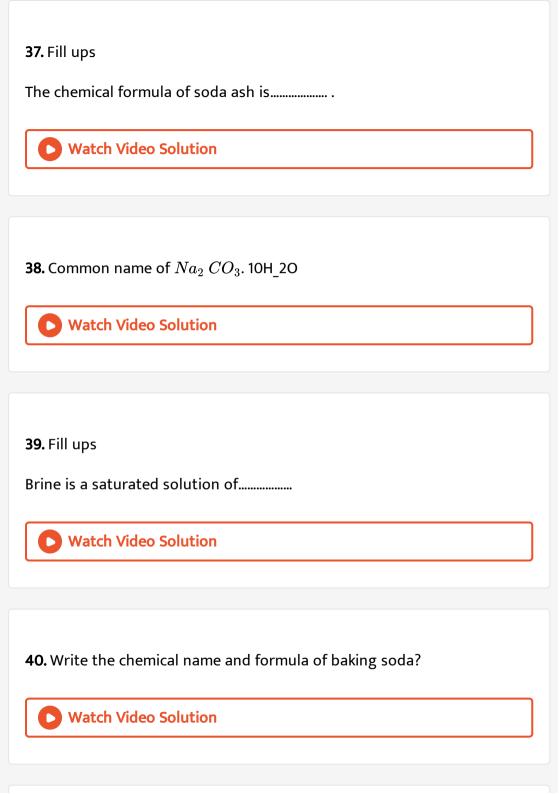
# **34.** The following data about the pH of different solutions are given:

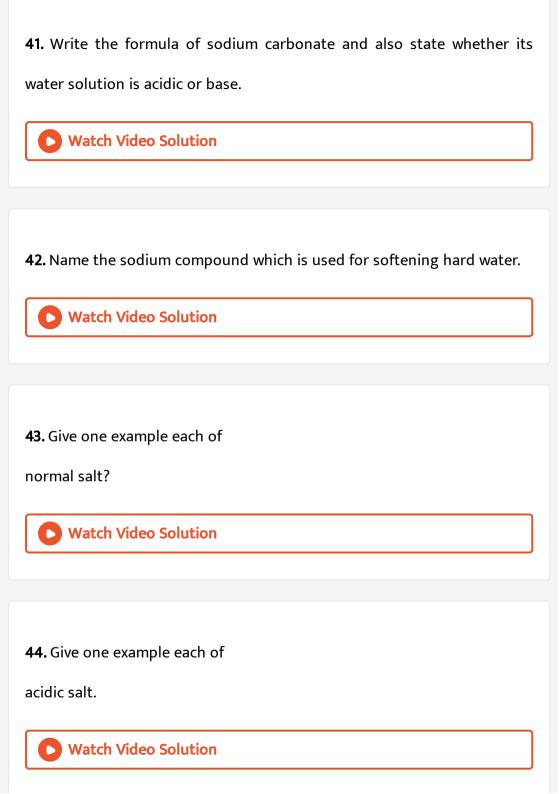
Substance	pН	Substance	pН
A. Vinegar	2.4–3.4	D. 0.1 M NH <sub>3</sub> (household ammonia)	11.6
B. Coffee	4.5-5.5	E. Milk of magnesia	10
C. Tomato juice	4.0-4.4	F. Battery acid	0.5

Will pH soluton A increase or decrease on adding water to it?



35. Select the substance from the following list which turn blue litmus
solution red:
Tomato juice
Tooth paste
Milk of magnesia
Coffee
Wine
Household ammonia
Vinegar
Battery acid
Watch Video Solution
<b>36.</b> What do you call the property of losing water of crystallisation?

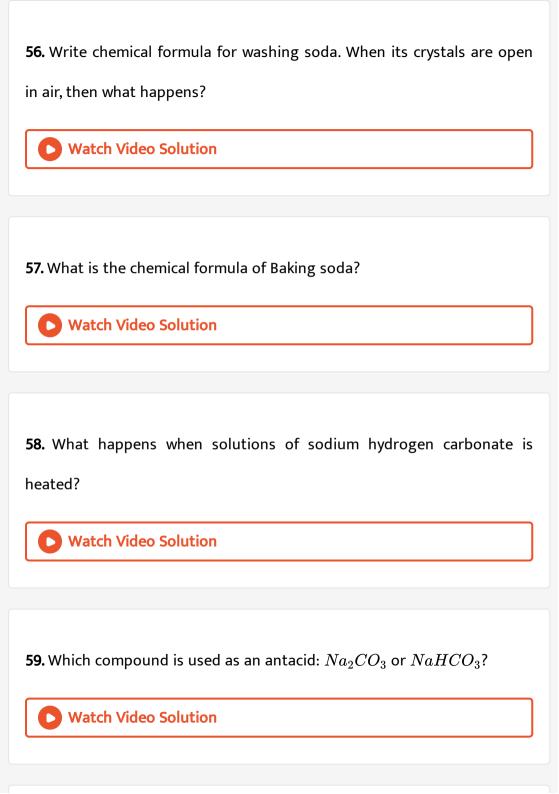


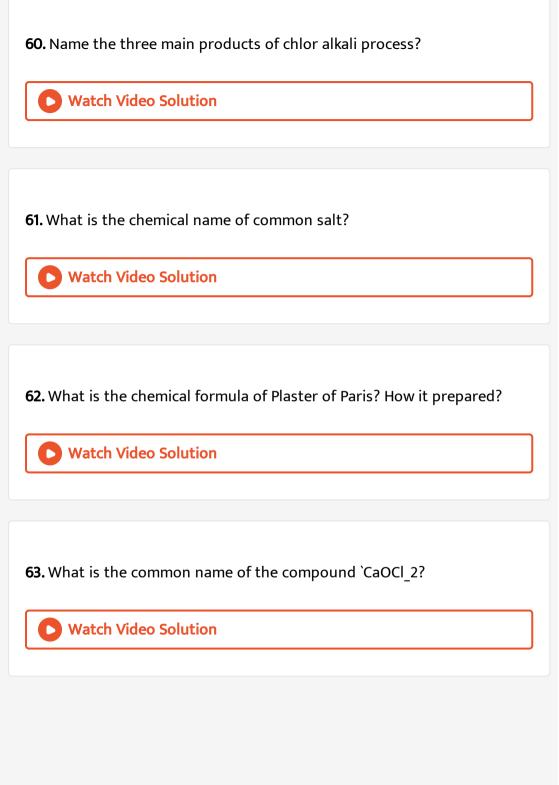


45. Give one example each of basic salt. Watch Video Solution 46. Name the acid and the base which from the salts: Ammonium chloride. **Watch Video Solution** 47. Name the acid and the base which from the salts: Sodium chloride. **Watch Video Solution 48.** State whether the following is acidic or basic: Sodium formate?

Watch Video Solution
<b>49.</b> Name the most common antacid.
Watch Video Solution
<b>50.</b> State whether the following is acidic or basic:
Copper sulphate
Watch Video Solution
<b>51.</b> Which of the following salts has highest pH value
ammonium chloride, sodium nitrate, potassium carbonate
Watch Video Solution
<b>52.</b> A solution turns red litmus blue its ph is:

Watch Video Solution
<b>53.</b> Name the two main consituents of baking powder.
Watch Video Solution
<b>54.</b> What is efflorescence? Name one compound which show efflorescence?
Watch Video Solution
<b>55.</b> Give chemical formula of
Caustic soda?
Watch Video Solution





64. Name the compound of calcium used for disinfecting drinking water. Give its chemical formula. **Watch Video Solution** 65. What is chemical formula of plaster of paris? Watch Video Solution 66. Fill ups The chemical formula of bleaching powder is..... **Watch Video Solution** 67. Name the substance which on treatment with chlorine yields bleaching powder. **Watch Video Solution** 

**68.** Write an equation to show the reaction between plaster of paris and water.



**Watch Video Solution** 

**69.** Complete the reactions:

$$CaOCl_2 + H_2SO_4 
ightarrow$$



**Watch Video Solution** 

**70.** A white chemical compound becomes hard on mixing proper quantity of water. It is also used in surgery to maintain joints in a fixed position. Name the chemical compound and give its chemical formula.



71. A piece of zinc metal is dropped in dilute solution of hydrochloric acid.

Answer the following:

Which gas is liberated when the metal reacts with the acid?



**Watch Video Solution** 

72. A piece of zinc metal is dropped in dilute solution of hydrochloric acid.

Answer the following:

How will you test the presence of the gas evolved?



**Watch Video Solution** 

73. A piece of zinc metal is dropped in dilute solution of hydrochloric acid.

Answer the following:

Is the gas liberated lighter or heavier than air?



74. A piece of zinc metal is dropped in dilute solution of hydrochloric acid.

Answer the following:

Can we use dil. Sulphuric acid in place of dil. HCl?



**Watch Video Solution** 

75. You are given three solutions A,B and C. the pH values of the solutions are 4.5, 7.0 and 10.0 respectively?

Which of these is acidic?



**Watch Video Solution** 

76. You are given three solutions A,B and C. the pH values of the solutions are 4.5, 7.0 and 10.0 respectively?

Which of these is basic?



77. You are given three solutions A,B and C. the pH values of the solutions

are 4.5, 7.0 and 10.0 respectively?

Which of these has

maximum concentration of  $H_3O^+$  ion.



**Watch Video Solution** 

78. You are given three solutions A,B and C. the pH values of the solutions

are 4.5, 7.0 and 10.0 respectively?

minimum concentration of  $H_3O^+$  ion?



#### 79. Complete the table:

Substance	Chemical formula	Chemical name
(i) Bleaching power		
(ii) Washing soda		***************************************
(iii)		Sodium
-		hydroxide
(iv)	NaCl	***************************************
(v) Slaked lime		
(vi) Plaster of Paris		



**80.** Give one example each of basic salt.



**81.** Give one example each of acidic salt.



**82.** Give one example each of acidic salt.



Watch Video Solution

**83.** Give one example each of normal salt?



Watch Video Solution

### **84.** Complete the following table:

Atomic Number	Mass Number	Number of Neutrons	Number of Protons	Number of Electrons	Name of the Atomic Species
9	-	10	_	K	
16	32		THE PROPERTY		Sulphur
_	24	-	12		-
_	2	_	1		-
	1	0	1	0	



#### **85.** Complete the following reactions:

 $KOH + HNO_3 \rightarrow \dots + \dots + \dots$ 



### **86.** Complete the following reactions:

 $Na_2CO_3 + 2HCl \rightarrow \dots + \dots + \dots + \dots + \dots$ 



#### **87.** Complete the following reactions:

 $NaCl + CO_2 + NH_3 + H_2O \rightarrow \dots + \dots + \dots + \dots$ 



<b>88.</b> Complete the following reactions:	
$NaHCO_3  ightarrow \ldots + \ldots + \ldots + \ldots$	

89. Complete the following reactions:

 $Ca(OH)_2 + Cl_2 \rightarrow \dots + \dots + \dots$ 

 $CaOCl_2 + H_2SO_4 \rightarrow \dots + \dots + \dots + \dots + \dots$ 

90. Complete the following reactions:



 $CaSO_4.~rac{1}{2}H_2O+H_2O
ightarrow \ldots \ldots$ 

D	Watch	Video	Solution	



# Watch Video Solution

93. Complete the following reactions:

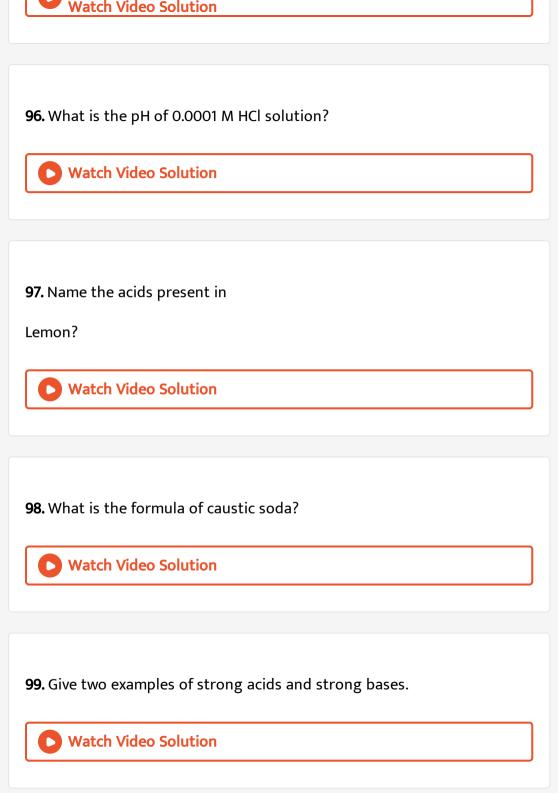
 $NaOH + H_2SO_4 \rightarrow \dots + \dots + \dots$ 

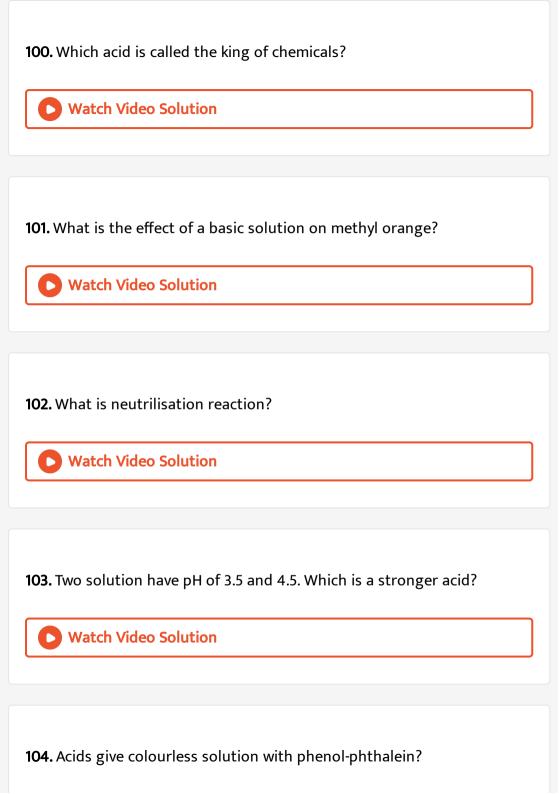
**94.** Will the pH of  $CH_3COOH$  be more or less than 7?

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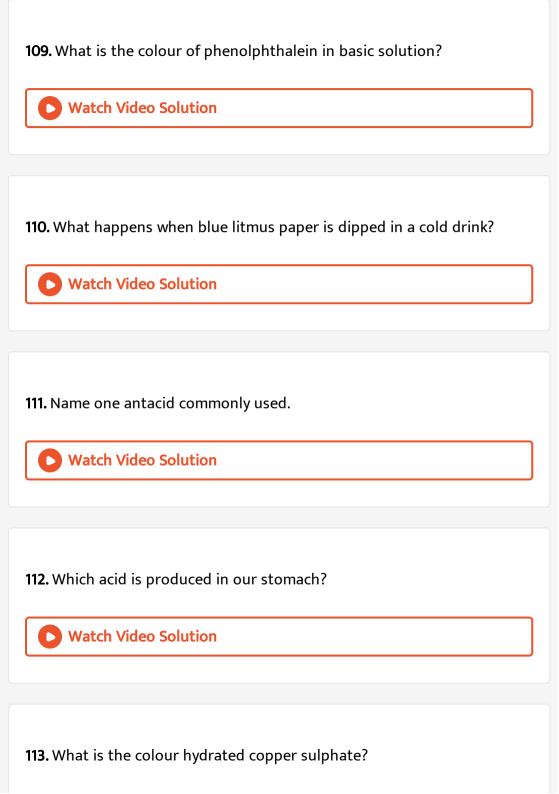


**95.** Is the sting of ants acidic or basic?



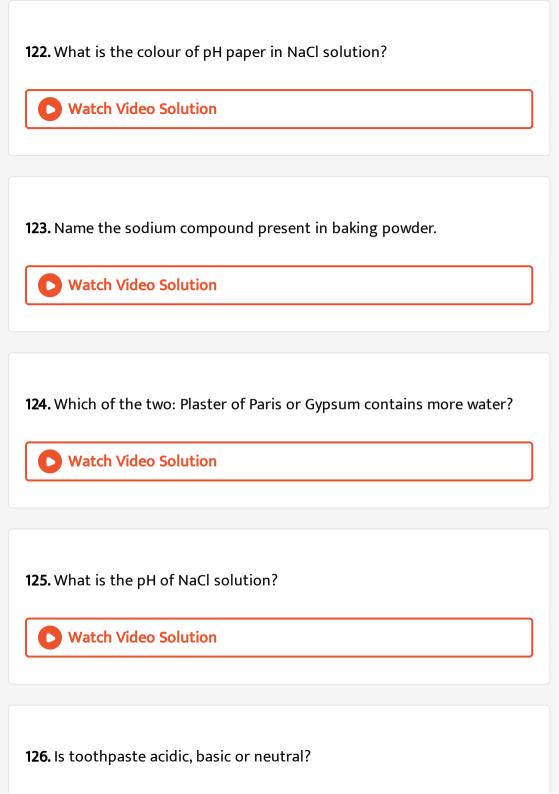


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105. What is the colour of methyl orange in NaOH?
Watch Video Solution
106. Name two substances from daily life which contains acid.
Watch Video Solution
<b>107.</b> Name two substances from daily life which contains base.
Watch Video Solution
108. Can vanilla essence act as an indicator?
Watch Video Solution



Watch Video Solution
<b>114.</b> What is the colour of phenolphthalein in milk of magnesia?
Watch Video Solution
<b>115.</b> What is colour of gas evolved when sodium hydrogen carbonate reacts with dil. HCl?
Watch Video Solution
<b>116.</b> Is $CO_2$ gas supporter of combustion?
Watch Video Solution
<b>117.</b> Is $CuSO_4$ acidic, basic or neutral?
Watch Video Solution

<b>118.</b> Can dry HCl turn blue litmus red?
Watch Video Solution
119. Which has higher pH value: 1M NaOH(aq) or 1M HCl(aq)?
Watch Video Solution
<b>120.</b> Will glucose solution conduct electricity?
Watch Video Solution
<b>121.</b> How many water molecules are present in washing soda?
Watch Video Solution





**127.** Name the substance which on treatment with chlorine yields bleaching powder.



**128.** The pH of three acidic solutions are:

Beer=4.8, Lemon juice=2.3, Gastric juice=1.6

Arrange these in increasing order or acid strength?

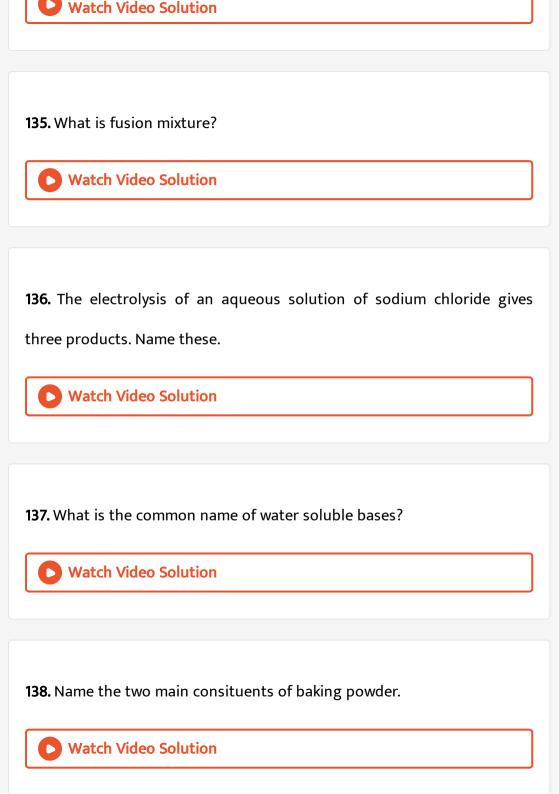


**129.** Fill ups

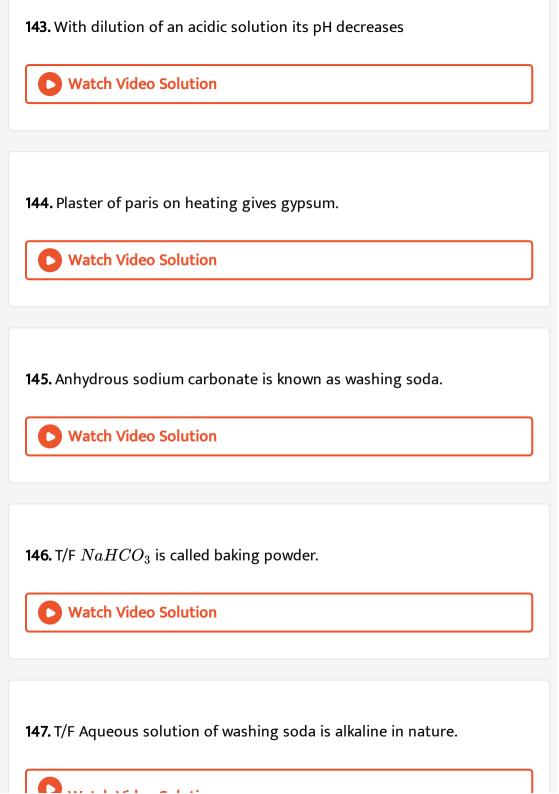
The chemical formula of bleaching powder is.....

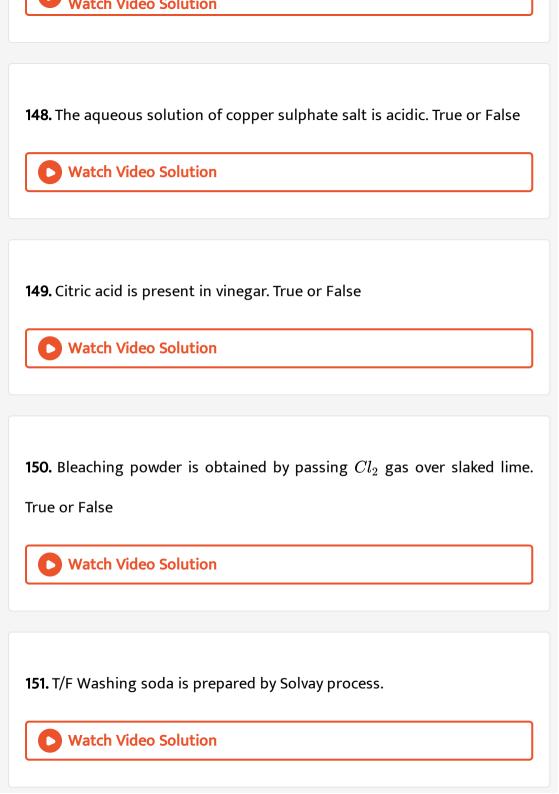


<b>130.</b> $Ca(OH)_2$ solution has pH greater than 7. Is it true or false?
Watch Video Solution
<b>131.</b> What are the formulae of gypsum and Plaster of Paris?
Watch Video Solution
<b>132.</b> What is a brine solution ?
Watch Video Solution
<b>133.</b> what is vinegar?
Watch Video Solution
<b>134.</b> What is the colour of universal indicator in very basic solutions?



<b>139.</b> The basicity of $CH_3COOH$ is 4.
Watch Video Solution
<b>140.</b> Vanilla essence of used as olfactory indicator.
Watch Video Solution
<b>141.</b> Ph of an acidic solution is:
Watch Video Solution
<b>142.</b> pH of a basic solution is always more than that of an acidic solution
solution of same concentration.
Watch Video Solution





<b>152.</b> Caustic soda is KOH. True or False
Watch Video Solution
153. State whether the statement is true or false- The chemical name of
baking soda is calcium carbonate.
Watch Video Solution
Watch video solution
<b>154.</b> Blood is more acidic than urine (pH=5.6). True or False
Watch Video Solution
<b>155.</b> All acids ionise to give $H_3O^+$ ions. True or False
Watch Video Solution
Trassit video solution

**156.** A strong base give more number of  $OH^-$  ions than a weak base of same concentration. True or False **Watch Video Solution** 157. Aluminium chloride solution has pH more than 7. True or False **Watch Video Solution** 158. Sodium acetate is salt of strong acid and weak base. True or False **Watch Video Solution 159.** Fill ups Acids on ionisation give.....ions. **Watch Video Solution** 

160. What happens when blue litmus paper is dipped in a cold drink?
Watch Video Solution
<b>161.</b> Fill ups
pH of acids isthan 7 while that of bases isthan 7.
Watch Video Solution
<b>162.</b> Fill ups
A salt is made when thein an acid is replaced by a
Watch Video Solution
<b>163.</b> Name the two main consituents of baking powder.
Watch Video Solution

**164.** Fill ups The chemical formula of washing soda is............... Watch Video Solution **165.** Fill ups The pH of  $CuSO_4(aq)$  solution is............... **Watch Video Solution 166.** Fill ups The chemical name of bleaching powder is............... **Watch Video Solution 167.** Fill ups Plaster of Paris is obtained by heating................

Watch video Solution
<b>168.</b> Fill ups
Bee sting containsacid.
Watch Video Solution
Watch video solution
<b>169.</b> Fill ups
Vinegar containsacid.
Watch Video Solution
<b>170.</b> Fill ups
Stomach has pH nearly equal todue its secretion of In
gastric juices.
Watch Video Solution

**171.** On putting a few drops of a liquid on a pH strip, the colour of pH strip changed to green. The liquid is most probably.

A. lemon juice

B. dil HCl

C. NaOH solution

D. water

### Answer:



172. When a few drops of universal indicator were added to a dilute solution of HCl, it is observed that the colour of the solution changes from

A. colourless to blue

B. colourless to red

C. blue to colourless
D. colourless to green
Answer:
Watch Video Solution
<b>173.</b> Dilute hydrochloric acid is added to sodium carbonate. It is observed
that
A. brisk efferescence occurs
B. the gas evolved turns lime water milky
C. the gas evolved extinguishes a burning matchstick
D. all of the above
Answer:
Watch Video Solution

**174.** A student was given three samples containing hydrochloric acid, sodium bicarbonate solution and water in test tubes I, II and III respectively. On dipping a pH paper in them he observed that the colour turned orange in I, blue in II, and green in III. If arranged in increasing order of their pH it would be

- A. I,II,III
- B. III,II,I
- C. I,III,II
- D. II,III,I

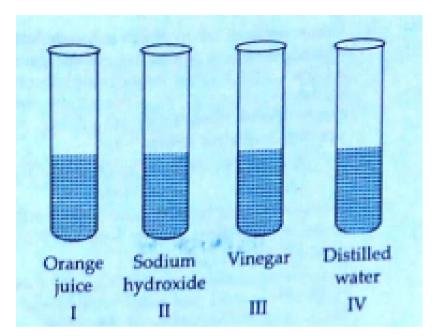
## Answer:



**Watch Video Solution** 

**175.** The following solutions were tested for their pH value of by using pH paper. The solutions which would show a value of a pH less than 7 would

be.



- A. I,III
- B. II,IV
- C. I,IV
- D. II,III

# **Answer:**



**Watch Video Solution** 

176. The colour of pH strip turned red when it was dipped in a sample, the sample could be

A. dilute NaOH solution

B. tap water

C. dilute HCl solution

D. dilute  $NaHCO_3$  solution

## **Answer:**



**Watch Video Solution** 

# **177.** pH of saliva is:

A. Heat the solution in the test tube and expsoe the pH paper to the

vapour formed.

B. Pour solution from the test tube on pH paper

C. drop of pH paper into the solution

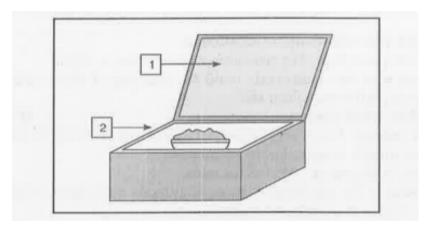
D. add a drop of solution on the pH using a dropper.

#### **Answer:**



**Watch Video Solution** 

# 178. Label 1 and 2 in the given figure.



- A. Slow reaction in (A) and rapid reaction in (B)
- B. Rapid reaction in (A) but a slow reaction in (B)
- C. Rapid reaction in both the test tubes
- D. No reaction in any of the tubes.

# **Answer:**



Watch Video Solution

**179.** On putting a few drops of an unknown liquid on the pH strip, the colour of the pH strip is changed to violet. The liquid taken is likely to be

- A. dilute sodium hydroxide
- B. dilute hydrochloric acid
- C. dilute acetic acid
- D. water

## Answer:



**Watch Video Solution** 

**180.** A student was given three samples containing hydrochloric acid, sodium bicarbonate solution and water in test tubes I, II and III

respectively. On dipping a pH paper in them he observed that the colour turned orange in I, blue in II, and green in III. If arranged in increasing order of their pH it would be

- A. Gas is evolved vigrously in both
- B. Gas is evolved vigorously in beaker I and not in the beaker II
- C. Gas is evovled vigorusly in beaker if the not in the beaker I
- D. No gas is evolved in either, of the two beakers.

### Answer:



**181.** Which of the following chemical properties are shown in dilute hydrochloric acid?

- A. turns blue litmus red
- B. turns red litmus blue.
- C. reacts with zinc and a gas is evolved

D. reacts with solid sodium carbonate to give brisk effervescence
nswer:
Match Video Solution

**182.** On adding methyl orange to a solution A it imparts a pink colourand on adding it to solution 'B' a yelow colour is obtained. A and B solution are respectively.

- A. Neutral, acidic
- B. Acidic, basic
- C. Basic, acidic
- D. Neutral, basic

# Answer:



<b>183.</b> Quick lime is
A. white powder
B. brown powder
C. blue powder
D. yellow powder
Answer:
Watch Video Solution
<b>184.</b> Identify the colour changes in pH paper when a drop of a sample,
which has pH 14 in standard pH colour chart is placed on it.
A. Red
B. Yellow
C. Blue
D. Green

## **Answer:**



Watch Video Solution

**185.** When a few drops of universal indicator were added to a dilute solution of HCl, it is observed that the colour of the solution changes from

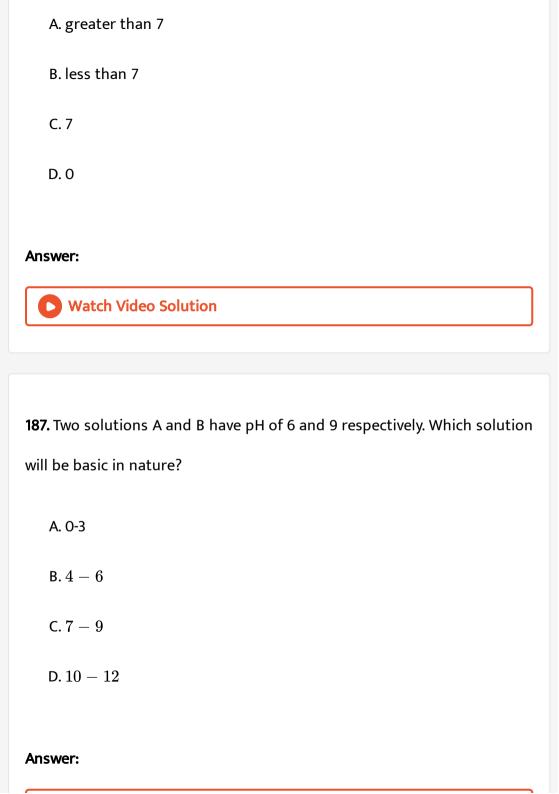
- A. colurless to red
- B. colourless to blue
- C. Blue to colourless
- D. colourless to green

### Answer:



Watch Video Solution

**186.** If HCl is added to distilled water, the pH of new solution will be:





**188.** The pH value of a sample of hydrochlroic acid is 2, pH value of this sample when diluted by adding water will be

A. less than 2 but more than 0

B. more than 2 but less than 7

C. more than 7

D. no change in pH

## **Answer:**



**Watch Video Solution** 

**189.** The products of reaction between zinc and sodium hydroxide solution are:

A. sodium carbonate and water

- B. sodium zincate and hydrogen
- C. zinc hydroxide and hydrogen
- D. zinc carbonate and hydrogen

#### **Answer:**



**Watch Video Solution** 

# 190. Find the mode of the following distribution:

Marks	0 - 10	10 – 20	20- 30	30 – 40	40 – 50	50 – 60	60 – 70
Frequency	5	15	20	20	32	14	14

- A. indigo, light red, green, red
- B. red,indigo,green,light red
- C. indigo, red, green, yellow
- D. green, red, yellow, indigo

### **Answer:**



Watch Video Solution

191. Rachel, an engineering student, was asked to make a model shaped like a cyclinder. with two cones attached at its two ends by using a thin aluminium sheet. The diameter of the model is 3 cm and its length is 12 cm. If each cone has a height of 2 cm, find the volume of air contained in the model the Rachel made. (Assume the outer and inner dimensions of the model to be nearly the same.)

- A. collection of apparatus
- B. cleaning of all apparatus
- C. making of pH paper wet and then dip it is sample
- D. recording observation.

## **Answer:**



**Watch Video Solution** 

**192.** Complete the following reactions:

 $NaHCO_3 \stackrel{Heat}{\longrightarrow}$ 



**193.** Complete the following reactions:

 $CaClO_2 + CO_2 \rightarrow$ 



**194.** You are given two solution A and B having pH 1 and 6. which of these has more hydrogen ion concentration?



195. Which gas is produced when Al metals reacts wth NaOH solution?



196. Which colour is produced when a drop of phenophthalein is added to HCl solution.

Watch Video Solution

**197.** Which colour is produced when a drop of phenophthalein is added to NaOH solution.



198. Which has higher pH value: 1M NaOH(aq) or 1M HCl(aq)?



199. What will be the colour of litmus in a solution of sodium carbonate?



**200.** Which of the two  $CuSO_4$  or  $CH_3COONa$  solutoin has pH>7?



**Watch Video Solution** 

**201.** What will be the colour produced when a drop of methyl orange is added to each of the following solutions:

NaCl?



**Watch Video Solution** 

**202.** What will be the colour produced when a drop of methyl orange is added to each of the following solutions:

 $NH_4Cl$ ?



**Watch Video Solution** 

**203.** What will be the colour produced when a drop of methyl orange is added to each of the following solutions:

 $Na_2CO_3$ ?



**204.** Which of the two HCl or  $CH_3COOH$  is a strong acid?



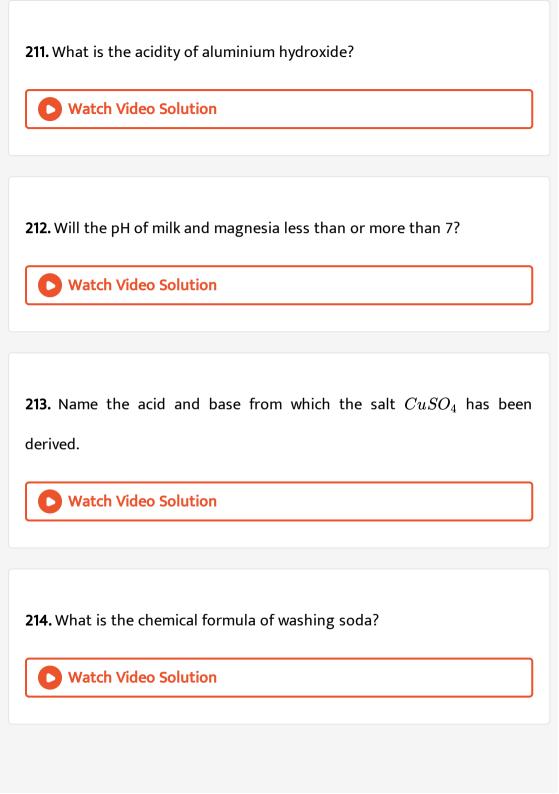
**205.** What are olfactory indicators?

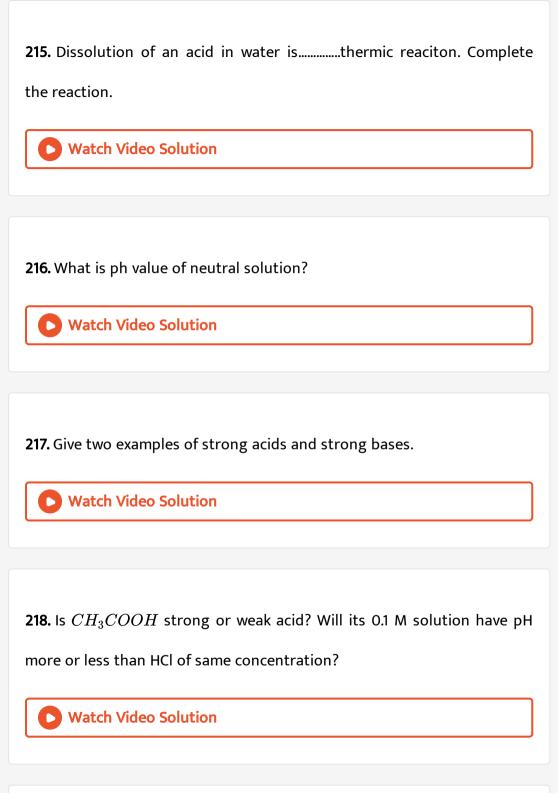


206. Give two examples of strong acids and strong bases.



207. Write a general equation for the reaction of a metal carbonate with an acid. **Watch Video Solution 208.** The basicity of  $CH_3COOH$  is 4. Watch Video Solution 209. Give two examples of weak acid? **Watch Video Solution** 210. Is the sting of ants acidic or basic? **Watch Video Solution** 





**219.** 10mL of 0.1 M HCl solution reacts completely with 10 mL of 0.1 M NaOH solution. What will be the pH of the resulting solution?



**220.** The pH of same concentration of gastric juice and lemon juice are 1.5 and 2.4 respectively. Which is more acidic?



**221.** The pH of a solution is 6. what is the hydrogen ion concentration?



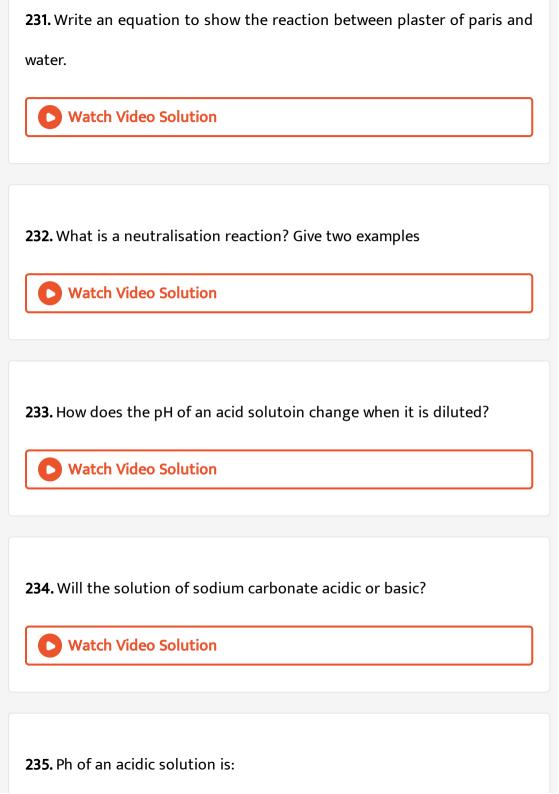
**222.** Which of the following has larger pH value

1M HCl?



223. Which of the following have large pH values: 1M HCl or 1M NaOH Watch Video Solution 224. Which of the following have large pH values: 1M HCl or 1M NaOH Watch Video Solution **225.** Common name of  $Na_2\ CO_3$ . 10H 2O **Watch Video Solution** 226. Fill in the blanks: The sodium compound used for softening hard water is \_\_\_\_\_

227. What happens when bleaching powder is exposed to air?  228. What is gypsum? What happens when gypsum is heated to 373K?  Watch Video Solution  229. What are the important uses of bleaching powder?  Watch Video Solution  230. What is used for plastering fractured bones?  Watch Video Solution	Watch video Solution
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	Watch Video Solution
Watch Video Solution	230. What is used for plastering fractured bones?
	Watch Video Solution



Watch Video Solution
236. What do all acids and all bases have common? Explain.
Watch Video Solution
237. Why does an aqueous solution of an acid conduct electricity?
Watch Video Solution
238. Distilled water is a poor conductor of electricity.
Watch Video Solution
239. Why do acids not show acidic behaviour in the absence of water?
Watch Video Solution

**240.** Fresh milk has a ph of 6. how do you think the ph will change as it turns into curds? Explain your answer.



**241.** What is efflorescence? Name one compound which show efflorescence?



**242.** State important properties of washing soda.

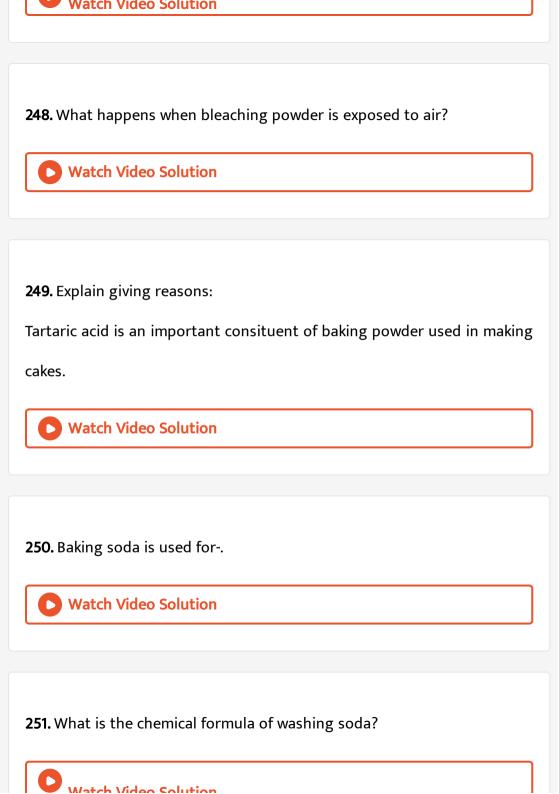


**243.** What is the action of heat on

washing soda



<b>244.</b> What is gypsum? What happens when gypsum is heated to 373K?
Watch Video Solution
<b>245.</b> What is the action of heat on
washing soda
Watch Video Solution
<b>246.</b> What is the action of heat on
Lime stone?
Watch Video Solution
<b>247.</b> Describe with chemical equaiton what happens when
Carbon dioxide gas reats with ammoniacal brine.



252. What will happen if a solution of sodium hydrogencarbonate is heated? Give the equation of the reaction involved **Watch Video Solution 253.** How is bleaching powder prepared? Give its uses. **Watch Video Solution** 

**254.** Doctors use a paste of white substance in water to maintain a fractured bone fixed in its place. Identify this substance and write its chemical formula.



**255.** Name the substance obtained by action of chlorine on dry slaked lime. Write chemical equation of the reaction.



**256.** A white powder having an odour of chlorine is used to remove yellowness of which cloths in laundries. Name this powder, how is the prepared? Write the chemical reaction involved in its preparation?



257. Describe an activity to show that acidic solution conducts electricity.

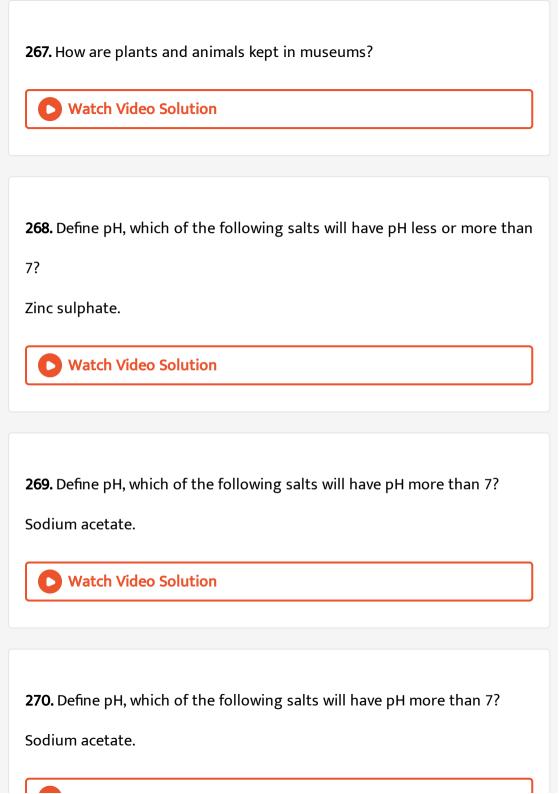


**258.** Among HCl,  $H_2SO_4$  and  $CH_3COOH$ , .....is weak acid.



259. Potassium nitrate has pH value equl to  Watch Video Solution
<b>260.</b> Fill ups
Plaster of Paris is obtained by heating
Watch Video Solution
<b>261.</b> Washing soda has chemical formula
Watch Video Solution
262. What are strong and weak acids
Watch Video Solution

<b>263.</b> Describe an activity to show that acidic solution conducts electricity.
Watch Video Solution
<b>264.</b> How do acids and bases, react with each other. Explain with example.
Watch Video Solution
<b>265.</b> Discuss the role of bile in digestion of food.
Watch Video Solution
Water video solution
<b>266.</b> Discuss the role of a pH in
causes of tooth decay.
Watch Video Solution
Water video Soldton



Watch Video Solution
<b>271.</b> Complete the following reactions:
Sodium hydroxide+acid $ ightarrow$ Sodium chloride+Water
Watch Video Solution

272. Complete the following reactions:

**273.** Complete the following reactions:

Watch Video Solution

Watch Video Solution

Copper oxide+Sulphuric acid  $\rightarrow$  .....+....+......

Sodium carbonate+.....+....acid → sodium nitrate+.....+....

<b>274.</b> Complete the following	reactions:
------------------------------------	------------

$$Ca(OH)_2(aq)$$
+.....  $ightarrow CaCO_3$ 



## 275. Complete the following reactions:

Alminium +Sulphuric acid  $\rightarrow$  .....+.....



#### **276.** Complete the following reactions:

chloride+.....+.....

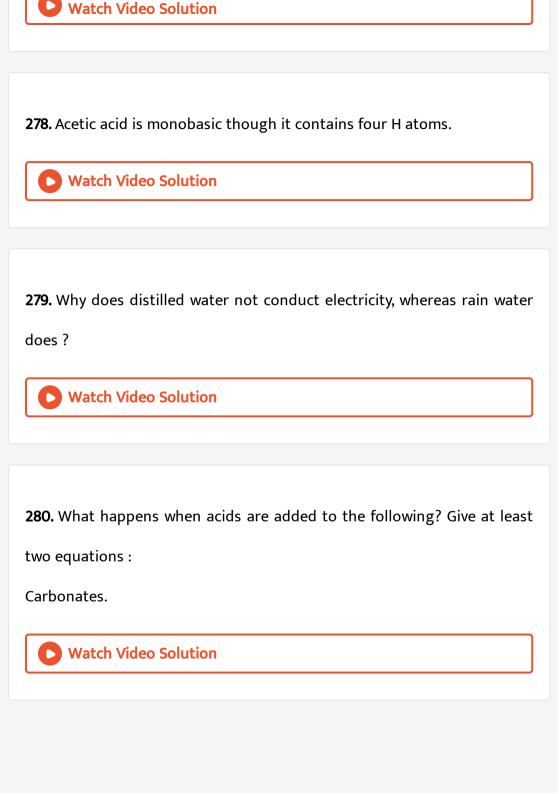
Sodium

**Watch Video Solution** 

277. All alkalines are bases but all bases are not alkalies.

hydrogen carbonate+.....ightarrow

Sodium



281. What happens when acids are added to the following? Give at least two equations in each case:

Metal Hydrogen carbonates.

Watch Video Solution

**282.** What happens when acids are added to the following? Give at least two equations in each case:

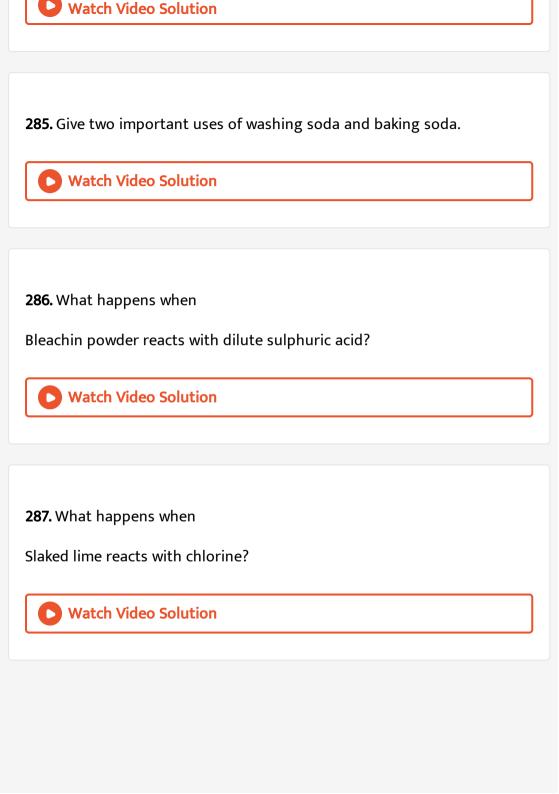
Metal Hydrogen carbonates.



**283.** How is bleaching powder prepared? Give its uses.



**284.** What is the chemical formula of washing soda?



288. What happens when solutions of sodium hydrogen carbonate is heated? **Watch Video Solution** 289. What is gypsum? What happens when gypsum is heated to 373K? **Watch Video Solution** 290. Give one use of each X-rays **Watch Video Solution** 291. What is bleaching powder? How its prepared? How does its react with  $CO_2$ ?



**292.** What is bleaching powder? How its prepared? How does its react with



 $CO_2$ ?



 $Ca(OH)_2 + Cl_2 
ightarrow \ldots + \ldots + \ldots$ 

**293.** Complete the following reactions:

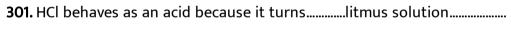


**294.** Complete the following reaction :  $CaO + H_2O 
ightarrow$ 



295. Complete the following reactions:
$NaHCO_3 \stackrel{Heat}{\longrightarrow}$
Watch Video Solution
296. Acids turnlitmus solution to
Watch Video Solution
<b>297.</b> Acid+Metal a salt+
Watch Video Solution
<b>298.</b> pH of acid solution is alwaysthan 7.
Watch Video Solution

299. According to Arrhenius concept NaOH is base because it gives.....ions. Watch Video Solution **300.** pH of  $10^{-5}$  M HCl solution is..... Watch Video Solution 301. HCl behaves as an acid because it turns......litmus solution...............





302. Which gas is produced when metal carbonates and metal hydrogen carbonates react with acid?



**303.** What is the importance of pH in everyday life?



Watch Video Solution

**304.** Discuss method of preparation and two uses of each of the following:

Plaster of Paris.



Watch Video Solution

**305.** Discuss method of preparation and two uses of each of the following:

Washing soda.



306. Discuss method of preparation and two uses of each of the following: Bleacing powder.

**Watch Video Solution** 

307. Explain the following with remedy

Feeling of acidity after over eating.



308. Explain the following with remedy

too much acidic soil.



**309.** Explain the following with remedy self defence by animals and plants through chemical warfare. **Watch Video Solution** 310. Explain the following with remedy tooth decay due to eating sugary substances. **Watch Video Solution** 311. What are acids and bases? Give two tests to distinguish these. **Watch Video Solution** 312. How dihydrogen chemically reacts with metals? **Watch Video Solution** 

313. What happens when H2 and O2 react with each other?
Watch Video Solution
<b>314.</b> Give three practical applications of neutralisation reaction.
Watch Video Solution
<b>315.</b> Discuss method of preparation and two uses of each of the following: Bleacing powder.
Watch Video Solution
<b>316.</b> Give method of preparation and two uses of each of the following: Baking soda.
Watch Video Solution

**317.** Give method of preparation and two uses of each of the following: Baking soda.



**Watch Video Solution** 

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

- A. The temperature of the solution increases
- B. The temperature of the solution decreases
- C. The temperature of the solution remains the same
- D. Salt formation of takes place

#### Answer:



**319.** An aqueous solutons turns red litmus solutoin blue. Excess addition of which of the following solution would reverse the change?

- A. Baking powder
- B. Lime
- C. Ammonium hydroxie solution
- D. Hydrochlroic acid

#### **Answer:**



**320.** Why calcium fluoride is added durig the electrolysis of calcium chloride? Explain.

- A. absorb the evovled gas
- B. moisten the gas
- C. abosorb moisture from the gas

D. absorb  $Cl^-\,$  ions from the evolved gas

#### Answer:



**Watch Video Solution** 

**321.** Which of the following salts does not contain water of crystallisations?

A. Blue vitriol

B. Baking soda

C. Washing soda

D. Gypsum

#### Answer:



<b>322.</b> Sodium carbonate is a basic salt because it is a salt of
A. strong acid and strong base
B. weak and weak base
C. strong acid and weak base
D. weak acid and strong base
Answer:
Watch Video Solution
<b>323.</b> Calcium phosphate is present in tooth enamel. Its nature is
A. basic
A. basic B. acidic
B. acidic

#### **Answer:**



**324.** A sample of soil is mixed with water and allowed to settle. The clear supernatent soluton 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

#### Answer:



**325.** Which of the following gives the corret increasing order or acidic strenght?

- A. waterltAcetic acidltHydrochloric acid
- B. WaterltHydrochloric acidltAcetic afcid
- C. Acetic acidltWaterltHydrochloric acid
- D. Hydrochloric acidltWaterltAcetic acid

#### **Answer:**



**326.** If a few drops of a concentrate acid accidently spills over the hand of a student, what should be done?

- A. wash the hand with saline solution
- B. wash the hand immdeidately with plenty of water and apply a paste
  - of sodium hydrogen carbonate

C. after washing soda with plenty of water apply solution of sodium

hydroxie on the hand

D. neutralise the acid with a strong alkali.

#### **Answer:**



**Watch Video Solution** 

**327.** Sodium hydrogen carbonate when added to acetic acid evolves a gas.

Which of the following statements are true about the gas evolved

It turns lime water millky

It extinguishes a burning splinter

It dissolves in a solution of sodium hydroxide

It has a pungent odour

A. (i) and (ii)

B. (i),(ii) and (iii)

C. (iii),(ii) and (iv)

D. (i) and (iv)

#### Answer:



**Watch Video Solution** 

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

washing soda

slaked lime

baking soda

bleaching powder

A. (i) and (ii)

B. (i),(ii) and (iii)

C. (i) and (iii)

D. (i),(ii) and (iv)

### Answer:



329. To protect tooth decay we are advised to brush our teeth regularly

A. acidic

B. neutral

C. basic

D. corrosive

#### Answer:



**330.** One of the consituent of bakking powder is sodium hydrogen carbonate, the other constituent is

A. hydrochlric acid

B. tartaric aid

C. Acetic acid D. sulphuric acid Answer: **Watch Video Solution** 331. Which of the following statements is correct about an aqeuous solution of an acid and of a base? A. Higher the pH, stronger the acid B. Higher the pH, weaker the acid

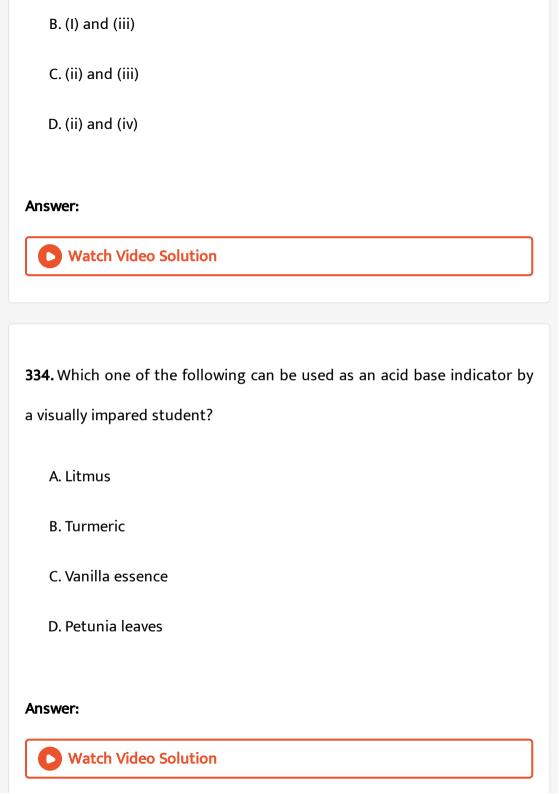
C. Lower the pH, weaker the acid

D. Lower the pH, stronger the base

**Watch Video Solution** 

**Answer:** 

332. 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 **Answer: Watch Video Solution** 333. Which of the following phenomena occur, when a small amount of acid is added to water? Ionisation Neutralisaton Dilution Salt formation A. (i) and (ii)



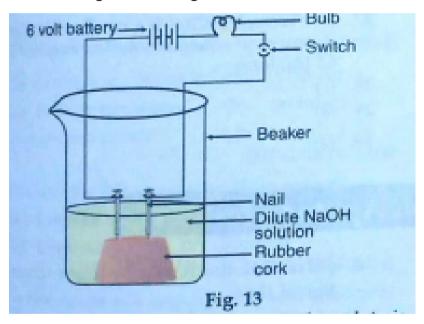
<b>335.</b> Which of the following substance is brittle?
A. Marble
B. Limestone
C. Baking soda
D. Lime
Answer:
Watch Video Solution
Watch Video Solution
336. Which of the following is acidic in nature?
336. Which of the following is acidic in nature?
336. Which of the following is acidic in nature?  A. Lime juice

#### **Answer:**



**337.** In an attempt to demonstarate electrical conductivity through an electrolyte, the following apparatus was set up

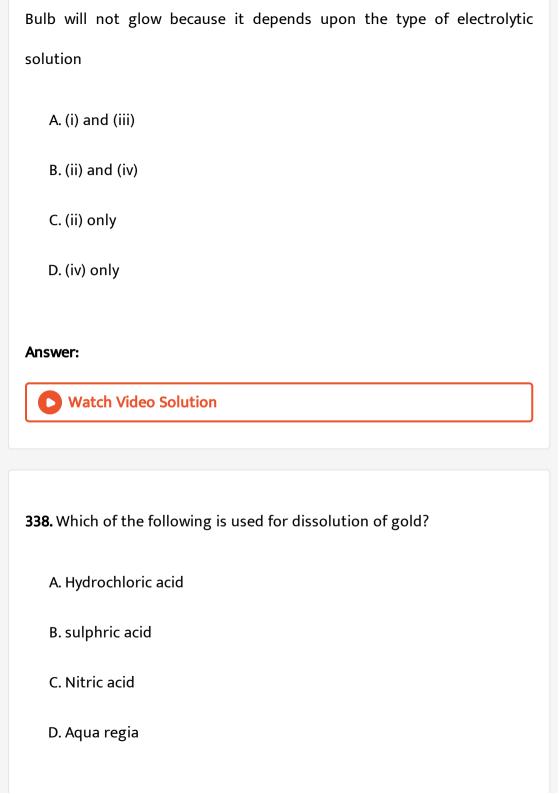
Which among the following statement is correct?



Bulb will not glow because electrolyte is not acidic

Bulb will glow because NaOH is a strong base and furnishes ions for conduction.

Bulb will not glow because circuit is incomplete.



# Answer: Watch Video Solution 339. Which of the following is not a mineral acid? A. Hydrochloric acid B. Citric acid C. Sulphuric acid D. Nitric acid **Answer:** Watch Video Solution 340. Which among the following is not a base? A. NaOH

B. KOH

C.  $NH_4OH$ 

D.  $C_2H_5OH$ 

#### Answer:



**Watch Video Solution** 

#### 341. Which of the following statements is not correct?

A. All metal carbontate react with acid to give a salt, water and carbon

dioxde

B. All metal oxides react with water to give salt and acid

C. Some metals reacts with acids to give salt and hydrogen

D. Some non metal oxides react with water to form and acid

#### **Answer:**



**342.** Match the chemical substances given in column with their appropirate application given in column B.

Column (A) (A) Bleaching powder		Column (B) Preparation of glass
(B) Baking soda	(ii)	Production of H <sub>2</sub> and Cl <sub>2</sub>
(C) Washing soda (D) Sodium chloride	4	Decolourisation Antacid

A. A-(ii),B-(i),C-(iv),D-(iii)

B. A-(iii),B-(ii),C-(iv),D-(i)

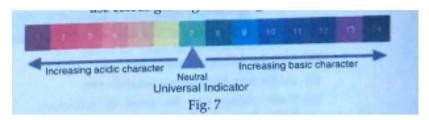
C. A-(iii),B-(iv),C-(i),D-(ii)

D. A-(ii),B-(iv),C-(i),D-(iii)

#### **Answer:**



**343.** Equal volumes of hydrochlric acid and sodium hydroxide solutions of the same concentration are mixed and the pH of the resulting solution is checked with a pH paper. What would be the same colour obtained?



- A. REd
- B. Yellow
- C. Yellowish green
- D. Blue

#### Answer:



**Watch Video Solution** 

**344.** Which of the following is true when HCl is passed throug water?

- A. It does not ionise in the solution
- B. it ionises in the soluton
- C. It gives both hydrogen and hydroxyl ion in the solution
- D. It forms hydronium ion in the solution due to the combination of hydrogen ionss with water molecule.

#### **Answer:**



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

- A. Bitter and chnge 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

#### Answer:

346. 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

#### **Answer:**



**Watch Video Solution** 

347. Identify the correct representation of reaction occuring during chloralkali process

A. 
$$2NaCl(l) + 2H_2O(l) 
ightarrow 2NaOH(l) + Cl_2(g) + H_2(G)$$

B. 2 N a C l ( A q ) + 2 H 2 O ( l ) → 2 N a O H ( a q ) + C l 2 ( a q ) + H 2 ( a q )

C.  $2NaCl(Aq) + 2H_2O(l) 
ightarrow 2NaOH(aq) + Cl_2(aq) + H_2(aq)$ 

D.  $2NaCl(aq) + 2H_2O(l) 
ightarrow 2NaOH(aq) + Cl_2(g) + H_2(g)$ 

#### Answer:



A. Acids turn blue litmus solution red

**348.** Which of the following statement is not correct?

B. Raw onion can be used as olfactory indicator to check acid or base

C. Bases are sour in taste

D. Vanilla essence does not give colour in strongly basic solutions

**Answer:** 



**349.** When black copper oxide placed in a beaker is treated with dilute HCl, its colour changes to

A. white powder

B. dark red

C. bluish green

D. no change

#### Answer:



**350.** Metal hydrogen carbonates react with acids to give

A. salt, water,chlorine

B. salt,water,carbon dioxide

C. salt and carbon dioxde

D. salt,hydrogen and carbon dioxide
Answer:
Watch Video Solution
<b>351.</b> pH of the solution having hydrogen ions concentration of 1M is
A. 0
B. 1
C. 10
D. 14
Answer:
Watch Video Solution

**352.** Which of the following acidic solutions having given pH values is most acidic?

A. Coffee (pH=4.8)

B. Beer (pH=4.2)

C. Tomato juice (pH=4.4)

D. Lemon juice(pH=2.3)

# **Answer:**



**353.** Which of the following aqueous solution will have highest depression in freezing point?

A. sodium chloride

B. potassium carbonate

C. copper sulphate

D. ammonium chlroide
Answer:
Watch Video Solution
<b>354.</b> Which of the following is not a strong acid?
A. $H_2SO_4$
$B.CH_3COOH$
C. $HNO_3$
D. HCl
Answer:

Watch Video Solution

**355.** The pH of a solution is 3. When its pH changes to 5, then  $H^{\,+}$  ion concentration

A. increse to times

B. decrease two times

C. increases 100 times

D. decreases 100 times.

# **Answer:**



**Watch Video Solution** 

# 356. Bleaching powder is

A.  $CaO_2Cl_2$ 

B.  $CaOCl_2$ 

 $\mathsf{C}.\,CaClO_2$ 

D.  $CaCl_2 + O_2$ 

# **Answer:**



Watch Video Solution

# **357.** Plaster of paris is

- A.  $CaSO_4$
- B.  $CaSO_4$ .  $H_2O$
- C.  $CaSO_4$ .  $2H_2O$
- D.  $CaSO_4$ .  $\frac{1}{2}H_2O$

# **Answer:**



Watch Video Solution

**358.** Sodium carbonate is also called

A. baking soda

B. washing soda
C. bleaching powder
D. bread soda
Answer:
Watch Video Solution
<b>359.</b> What is the pH of 0.1M NaOH solution?
A. 13
B. 12
C. 11
D. 10
Answer:
Watch Video Solution

<b>360.</b> Name the two main consituents of baking powder.
A. sodium benxoate
B. acetic acid
C. sodium lactate
D. tartaric acid
Answer:
Watch Video Solution
<b>361.</b> Which of the following is acidic in nature?
<b>361.</b> Which of the following is acidic in nature?  A. Lime juice
A. Lime juice
A. Lime juice B. Human blood

### **Answer:**



**362.** If a few drops of a concentrate acid accidently spills over the hand of a student, what should be done?

- A. wash the hand with saline solution
- B. wash the hand immdeidately with plenty of water and apply a paste of sodium hydrogen carbonate
- C. after washing soda with plenty of water apply solution of sodium hydroxie on the hand
- D. Neutralsie the acid with a strong alkali.

# **Answer:**



**Watch Video Solution** 

363. What happens when

Slaked lime reacts with chlorine?

A. Baking soda

B. sodium hydroxide

C. Bleaching powder

D. Cement

# Answer:



**364.** One of the consituent of bakking powder is sodium hydrogen carbonate, the other constituent is

A. Tartaric acid

B. sodium hydroxide

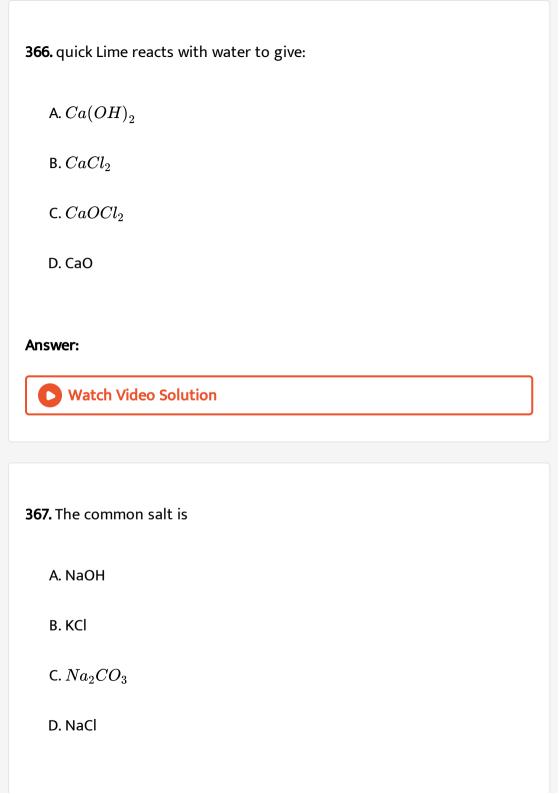
C. Calcium chlrode

Answer:
Watch Video Solution
<b>365.</b> Fill ups
Plaster of Paris is obtained by heating
A. Gypsum
B. Limestone
C. Sodium chlrode
D. Acetic acid

D. Acetic acid

**Answer:** 

Watch Video Solution



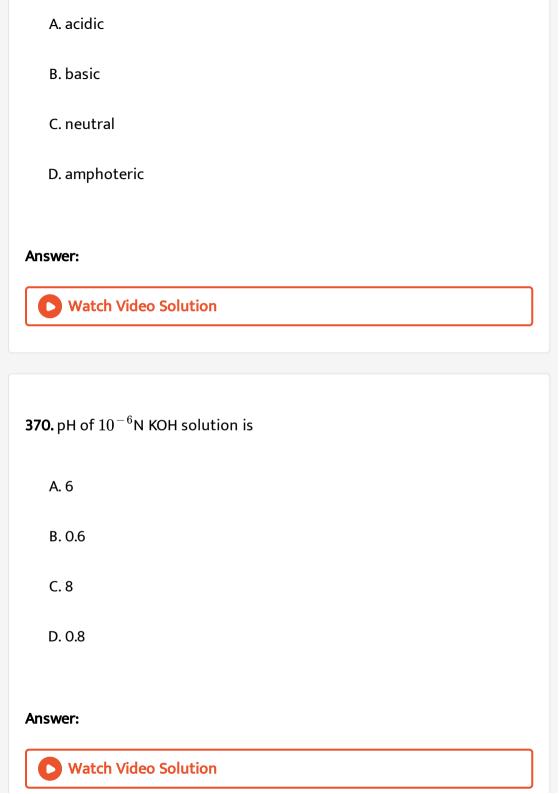
# Answer: Watch Video Solution 368. pH of a solution is zero. The nature of this solutoin is A. acidic B. basic C. neutral

Answer:



D. amphoteric

**369.** The nature of soluton when sodium carbonate is dissolved in water will be



371. Baking soda is:

Sodium hydrogen carbonate

On heating gives sodium cabronate

an ingredient of baking powder

used for manufacture of soap

which of the following is true:

A. (i) and (iv)

B. (i),(ii) and (iii)

C. (i),(iii) and (iv)

D. (i),(iii) and (iv)

# Answer:



**Watch Video Solution** 

372. The substance having pH more than 7 are common salt washing soda vinegar

sodium hydroxide

- A. (i),(ii)and (iv)
- B. (ii)and (iv)
- C. (i),(iii) and (iv)
- D. (iv) only

# **Answer:**



**Watch Video Solution** 

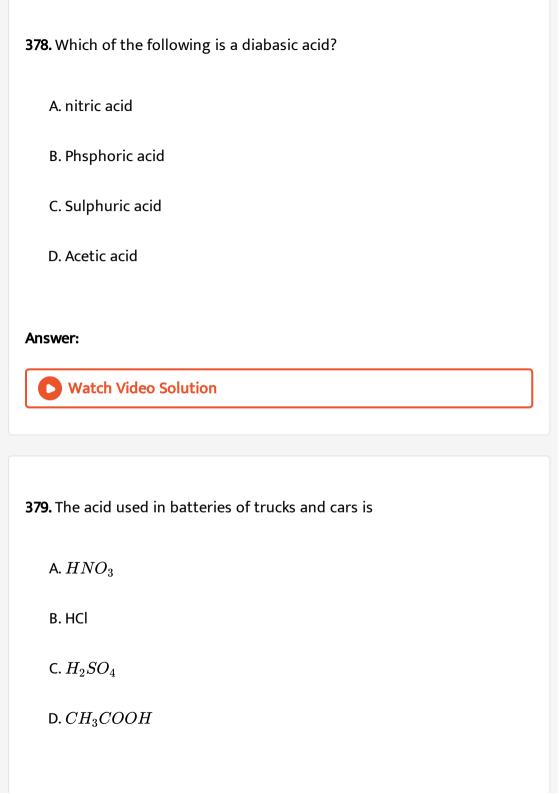
**373.** A milkman adds a very small amount of baking soda to fresh milk. why does he shift the ph of the fresh milk from 6 to slightly alkaline?

A. became close to 2 B. became close to 4 C. did not undergo any change D. became close to 8 **Answer: Watch Video Solution** 374. Which of the chemical formulae of the compounds are wrong? Brine solution: NaCl Baking powder:  $NaHCO_3$ , Bleaching powder:  $CaCl_2$ Gypsum:  $CaSO_4$ .  $H_2O$ A. (i) and (iv) B. (i),(ii) and (iii) C. (ii) and (iv) D. (ii) and (iv)

# **Answer:** Watch Video Solution 375. The acid obtained from curd is A. Oxalic acid B. Tartaric acid C. Acetic acid D. Lactic acid **Answer:** Watch Video Solution 376. By dissolving metal oxide in water, we get A. acid

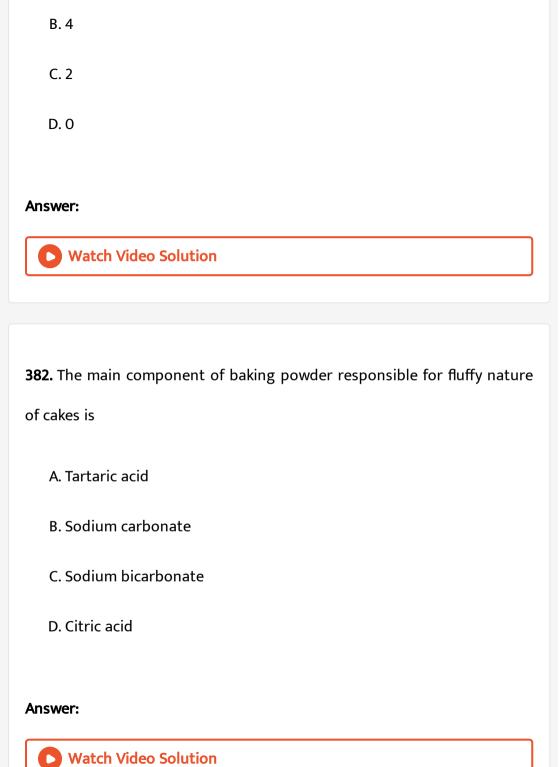
C. salt
D. none of these
Answer:
Watch Video Solution
377. Which of the following acid is present in sour milk?
A. citric acid
B. Acetic acid
C. Lactic acid
D. tartaric acid
Answer:
Watch Video Solution

B. base



# Answer: Watch Video Solution 380. Which of the following salt is used as an antacid? A. copper sulphate B. potash alum C. Potassium nitrate D. Sodium bicarbonate **Answer: Watch Video Solution**





**383.** Which of the following salts does not contain water of crystallisations?

A. Blue vitriol

B. washing soda

C. Baking soda

D. Gypsum

### **Answer:**



384. Aqueous solution of sodium chloride turns

A. red litmus blue

B. blue litmus red

C. red litmus orange

D. not change the colour of either red or blue litmus

# **Answer:**



**Watch Video Solution** 

**385.** On passing  $CO_2$  gas through a brine soluton saturated with ammonia, the substane obtained is

A. NaOH

B.  $NaHCO_3$ 

C.  $Na_{2}CO_{3}$ .  $10H_{2}O$ 

D.  $Na_2CO_3$ .  $H_2O$ 

# Answer:



Watch Video Solution

386. What is the difference of water molecules in plaster of paris and gypsum?

A.  $\frac{5}{2}$ 

B. 2

 $\mathsf{C.}\,\frac{1}{2}$ 

# **Answer:**



**Watch Video Solution** 

387. Chemical formula of gypsum is

A.  $CaSO_4$ 

B.  $ZnSO_4$ 

C.  $CaSO_4$ .  $2H_2O$ 

D.  $CaSO_4$ .  $H_2O$ 

# Answer:



**388.** Which of the following salts does not contain water of crystallisations?

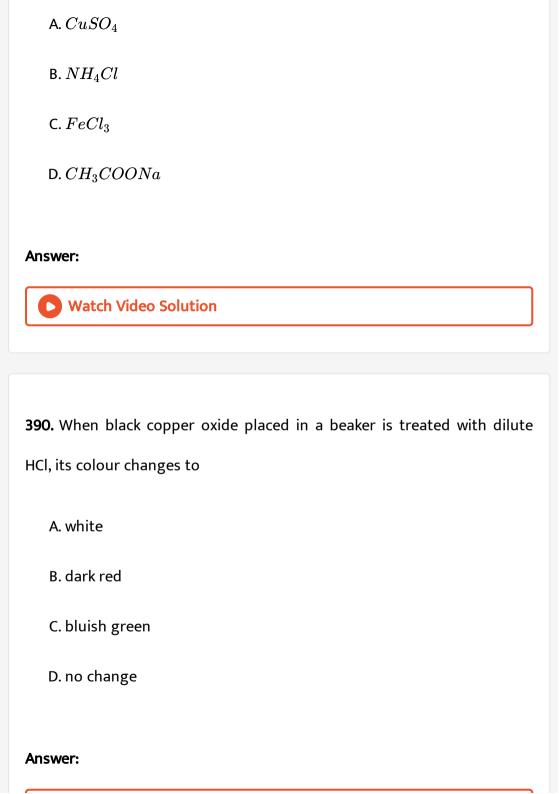
- A. Baking soda
- B. Blue vitriol
- C. Gypsum
- D. Washing soda

### **Answer:**



Watch Video Solution

**389.** Which of the following is not true



**391.** Which of the following acidic solutions having given pH values is most acidic?

- A. Coffee(pH=4.8)
- B. Beer(pH=4.2)
- C. Tomato juice (pH=4.4)
- D. Lemon juice(pH=2.3)

# Answer:



**Watch Video Solution** 

**392.** pH of the solution having hydrogen ions concentration of 1M is

- A. 0
- B. 1

C. 10
D. 14
Answer:
Watch Video Solution
<b>393.</b> The pH of a solution is 3. When its pH changes to 5, then $H^{+}$ ion
concentration
A. increases two times
B. decrease two times
C. increases 100 times

D. decreases 100 times.

Watch Video Solution

**Answer:** 

394. Which of the following is not a strong acid? A.  $H_2SO_4$ B.  $CH_3COOH$  $\mathsf{C}.\,HNO_3$ D. HCl **Answer: Watch Video Solution** 395. One of the consituent of bakking powder is sodium hydrogen carbonate, the other constituent is A. Tartaric acid B. Washing soda C. Calcium chlrode D. Acetic acid

# Answer: Watch Video Solution 396. What happens when Slaked lime reacts with chlorine? A. baking soda B. washing soda C. bleaching powder D. cement





397. Metal hydrogen carbonates react with acids to give

A. salt, water, chlorine B. salt, water, carbon dioxide C. salt and carbon dioxde D. salt, hydrogen and carbon dioxide **Answer: Watch Video Solution** 398. True/false Washing soda is  $Na_2SO_4$ .  $10H_2O$ **Watch Video Solution 399.** Bleaching powder is obtained by passing  $Cl_2$  gas over slaked lime. True or False **Watch Video Solution** 

**400.** Do basic solution also have $H^+$  (ag) ions? If yes, then why are these basic?



401. True/false

Copper sulphate solutoins turns red litmus blue.



402. True/false

Tamarind contains oxalic acid.



**Watch Video Solution** 

**403.** Fill ups

When dil HCl is added to black copper oxide, the solution

becomesin colour.
Watch Video Solution
<b>404.</b> Fill ups
Brine is a saturated solution of
Watch Video Solution
<b>405.</b> Fill ups
Salts of strong acids and weak bases arein nature.
Watch Video Solution
<b>406.</b> Fill ups
Tooth pastes are generallyin nature.
Watch Video Solution

# **407.** Fill ups



**408.** Why is sodium hydrogen carbonate an essential ingredient in antacids?



**409.** Dry hydrogen chloride gas does not turn blue litmus red whereas hydrochloric acid does. Give one reason.



**410.** Write a chemical equation for the reaction of carbon dioxide with bleaching powder.



**411.** Fresh milk has a ph of 6. how do you think the ph will change as it turns into curds? Explain your answer.



**412.** How is the concentration of hydronium ions  $\left(H_3O^+\right)$  affected when a solution of an acid is diluted ?



**413.** A piece of zinc metal is dropped in dilute solution of hydrochloric acid. Answer the following:

Which gas is liberated when the metal reacts with the acid?



414. A piece of zinc metal is dropped in dilute solution of hydrochloric acid. Answer the following: How will you test the presence of the gas evolved? **Watch Video Solution** 415. Name the two main consituents of baking powder. **Watch Video Solution** 416. Name the two main consituents of baking powder. **Watch Video Solution** 417. Tooth enamel is one of the hardest substances in our body. How does it damage due to eating chocolate and sweets? What should we do to prevent it? **Watch Video Solution** 

**418.** What is the meant by water by crystallisation in a substance? How would you show that blue copper sulphate crystals contain water of crystallisation?



**419.** Complete the following reactions:

$$NaCl + CO_2 + NH_3 + H_2O \rightarrow \dots + \dots + \dots + \dots$$



**420.** Compelte the following reactions:

$$CaSO_4.\ 2H_2O 
ightarrow$$



**421.** Compelte the following reactions:

 $CaCO_3 + H_2SO_4(dil) 
ightarrow$ 



**422.** What is universal indicator?



**423.** Solution A gives pink colour when a drop of phenopthalein indicator is added to it. Solution B gives red colour when a drop of methyl orange is added to it. What type of solutions are A and B and which one of the solutions A and B will have a higher pH value?



424. Name one salt whose solution has pH more than 7 and one salt whose has pH less than 7?



- 425. Hydrated copper sulphate on heating changes to
  - A. Blue
  - B. Black
  - C. White
  - D. Yellowish

# Answer:



**Watch Video Solution** 

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

A. Baking powder B. Lime C. Ammonium hydroxide D. Hydrochlroic acid **Answer:** Watch Video Solution 427. When a few drops of universal indicator were added to a dilute solution of HCl, it is observed that the colour of the solution changes from A. 0-3 B.4 - 6C.7 - 9D.10 - 12

# Answer: Watch Video Solution 428. Dilute hydrochloric acid is added to sodium carbonate. It is observed that A. brisk effrervescence occurs B. the gas evolved turns lime water milky C. the gas evolved extinguishes a burning matchstick D. all of the above Answer: Watch Video Solution

**429.** Which gas is produced when Al metals reacts wth NaOH solution?



**430.** What will be the colour produced when a drop of pehnolphthalein is added to Sodium nitrate?



**431.** What will be the colour produced when a drop of pehnolphthalein is added to

Copper chloride.



**432.** What will be the colour produced when a drop of pehnolphthalein is added to Sodium chloride.



**433.** What will be the colour produced when a drop of pehnolphthalein is

added to

Sodium acetate.



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