

BHARATIYA VIDYA BHAVAN'S V M PUBLIC SCHOOL, VADODARA
QUESTION BANK

Chapter - 2 Acids, Bases and Salts

Very short answer type questions – 1 mark each

- Q1. Why is HCL a strong acid and CH_3COOH a weak acid?
- Q2. Will the solution having $\text{pH}=4$ turn the blue solution red?
- Q3. What is an alkali? Name a strong alkali and strong acid.
- Q4. A colourless liquid of $\text{pH}=2$. What is the effect on litmus paper dipped in this solution?
- Q5. What happens when an iron nail is kept dipped in copper sulphate solution for half an hour?
- Q6. A gas produced in the laboratory is highly soluble in water and forms a colourless solution. Its solution turns pink when a few drops of phenolphthalein are added to it. What is the nature of gas?
- Q7. A yellow solution turns reddish-brown in an acid and remains as such in a base. What do you call such solution?
- Q8. What does pH stands for? What does a pH scale indicate?
- Q9. Name the gas evolved when dilute sulphuric acid reacts with sodium carbonate?
- Q10. Write the name and chemical formula of the acid present in vinegar?

short answer type questions – 2 mark each

- Q1. Why should acids be handled with care in the laboratory?
- Q2. How can we safely store and transport acids on small and on a large scale?
- Q3. Describe an activity to explore what do all acids have in common.
- Q4. Describe an activity to show that acid solution in water conducts electricity.
- Q5. How does acetic acid (vinegar) help in preserving food?
- Q6. Acetic acid is a weak acid and ammonia is a weak base. Discuss the term 'weak'.
- Q7. Why are bases are sometimes described as the opposite to acids?
- Q8. In what respect acids and bases are similar?
- Q9. What changes will take place in acid as you go on adding alkali in it?

Q10. What happens when electric current is passed through brine solution? Write the reaction involved?

short answer type questions – 3 mark each

Q1. What are Natural Indicators? Give 2 examples of such indicators.

Q2. Write the Molecular formula for sulphuric acid, nitric acid, carbonic acid and phosphoric acid?

Q3. Why sweet substances may lead to tooth decay. What is role of toothpaste to prevent tooth decay?

Q4. Why do we don't categorise metal oxide as salt, while we categorise metal sulphide as salt?

Q5. Why is Solvay process considered economical for the manufacturing of washing soda?

Q6. How do elements present in a fertilizer fulfill the nutritional requirements of a plant?

Q7. Excessive use of nitrogenous fertilizers may lead to water pollution. Elucidate the statement.

Q8. Write any four use of Caustic Soda.

Q9. What is Baking Powder? How does it make the cake soft and spongy?

Q10. Describe an activity to show that acids produce ions only in aqueous solution?

Long answer type questions – 5 mark each

Q1. How is the neutralization of a carbonate different from the neutralization of an oxide and an hydroxide?

Q2. Describe the electrolytic method for preparation of sodium hydroxide?