

- Q.1 Explain how antacid works.
- Q.2 Define olfactory indicators. Name two substances which can be used as olfactory indicator.  
(b) Choose strong acids from the following:  
 $CH_3COOH, H_2SO_4, H_2CO_3, HNO_3$
- Q.3 Name the natural source of each of the following acid  
(i) Citric acid.                      (ii) Oxalic acid.  
(iii) Lactic acid.                      (iv) Tartaric acid.
- Q.4 Explain why is hydrochloric acid a strong acid and acetic acid, a weak acid. How can it be verified?  
(ii) Explain why aqueous solution of an acid conducts electricity.
- Q.5 What is tooth enamel chemically? State the condition when it starts corroding. What happens when food particles left in the mouth after eating degrade? Why do doctors suggest use of tooth powder/toothpaste to prevent tooth decay?
- Q.6 What is the colour of litmus in a solution of ammonium hydroxide?
- Q.7 You are given three test tubes. The three test tubes contain distilled water, acidic solution and the basic solution respectively. There is only red litmus paper available in order to identify what is there in each test tube. How will you find out what is in each of the test tubes?
- Q.8 Why does dry HCl gas not change the colour of the dry litmus paper?