

CBSE TEST PAPER-03
CLASS - X (Acid Base and Salt)

1. Washing soda has the formula (1)
(a) $Na_2CO_3 \cdot 7H_2O$ (b) $Na_2CO_3 \cdot 10H_2O$
(c) $Na_2CO_3 \cdot H_2O$ (d) Na_2CO_3
2. Plaster of Paris hardens by (1)
(a) Giving off CO_2 (b) Changing into $CaCO_3$
(c) Combining with water (d) Giving out water
3. Which of the following is evolved when Na_2CO_3 is heated? (1)
(a) CO_2 (b) CO
(c) O_2 (d) No
4. A drop of liquid sample was put on the pH paper, paper turned blue. The liquid sample must be of (1)
(a) Lemon Juice
(b) HCl
(c) Sodium bicarbonate
(d) Ethanoic acid.
5. If pH of solution is 13, it means that it is (1)
(a) Weakly acidic (b) Weakly basic
(c) Strongly acidic (d) Strongly Basic
6. Why does not an acid show any acidic behavior in the absence of water? (2)
7. Fresh milk has a pH of 6. What will be the pH value if milk changes into a curd? Justify. (2)
8. What is the reaction between hydrogen ion concentration and pH of an aqueous solution? (2)
9. How will you show that acetic acid is a monobasic acid? (2)

10. Explain why- (3)
- (i) Anhydrous calcium chloride is used in desiccators
 - (ii) If bottle full of concentrated H_2SO_4 is left open in the atmosphere by accident, the acid starts flowing out the bottle of its own.
11. How is plaster of Paris chemically different from gypsum? How may these be inter converted? Write one use of plaster of Paris? (3)
12. (a) What is the action of red litmus on (3)
- (i) Dry ammonia gas
 - (ii) Solution of ammonia gas in water?
- (b) State the observations you would make on adding ammonium hydroxide to aqueous solution of
- (i) ferric sulphate
 - (ii) Aluminium chloride?
13. State the chemical property in each case on which the following uses of baking soda are based (3)
- (i) As an antacid
 - (ii) As a constituent of baking powder.
- Give the chemical for baking soda
14. A road tanker carrying an acid was involved in an accident and its contents spilled on the road. At the side of the road iron drain cover began melting and fizzing as the acid ran over them. A specialist was called to see if the acid actually leaked into the nearby river. (5)
- (a) Explain why specialist could carry out sample test to see if the river water contains some acid or not
 - (b) Suggest a better report name for the word 'melting'
 - (c) Explain why the drain covers began fizzing as the acid ran over them.