ACBSE Coaching for Mathematics and Science

CBSE TEST PAPER-05

SCIENCE & TECHNOLOGY (Class-10)

Chapter 2. Acids, Base and Salts

1. What is common to all acids?

(1 mark)

- 2. A white chemical compound becomes hard on mixing proper quantity of water. It is also used in surgery to maintain joins in a fixed position. Name the chemical compound. (1 mark)
- 3. Name two constituents of baking power. (1 mark)
- 4. A farmer has found that the pH of soil in his fields is 4.2. Name any two chemical materials which he can mix the soil to adjust its pH. (1 mark)
- 5. Write the pH value, after which teeth start decaying?

(1 mark)

- 6. How is the concentration of hydroxide ions (OH-) affected when excess base is dissolved in a solution of sodium hydroxide? (2 marks)
- 7. A white substance having a strong smell of chlorine is used to clean water in water storage tank. Identify the substance. Write its chemical name and the reaction for its preparation. (2 marks)
- 8. How is plaster of Paris obtained? What reaction is involved in the setting of a paste of plaster of Paris. (2 marks)
- 9. Name the gas evolved when dilute sulphuric acid acts on sodium carbonate. Writ the chemical equation for the reaction involved. (2 marks).
- 10. What is meant by the term 'pH of a solution'? The pH of gastric juices extracted from the stomach of two persons A and B were found to be 1 and 3 respectively. The stomach juice of which person is more acidic? (2 marks)
- 11. Fresh milk has pH of 6. How do you think the pH will change as it becomes sour? Explain your answer. (2 marks)
- 12. (i) Write the chemical names and formula of bleaching powder.
- (ii) Why does bleaching powder smell of chlorine when exposed to air?
- (iii) Write chemical equation to represent the action of dilute hydrochloric acid on bleaching powder. (3 marks)
- 13. What happens when
- (i) Aluminum metal reacts with dilute HCI?
- (ii) Potassium oxide is dissolved in water?
- (iii) Sodium hydroxide reacts with sulphuric acid completely?

Give equation for the chemical reactions involved. (3 marks)

14. Which gas is usually liberated when an acid reacts with a metal? Illustrate with an example. How will you test for the presence of he gas? (3 marks)