Class 10 Science · Chapter 2: Acids, Bases and Salts

Worksheet · 20 marks · about 40 minutes · based on NCERT

Name _____ Class and section _____ Date _____

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1. Which of the following is NOT a use of bleaching powder? [1]

(a) Supporting fractured bones in the right position
(b) Making drinking water free from germs
(c) Acting as an oxidising agent in chemical industries
(d) Bleaching cotton and linen in the textile industry

2. Litmus solution is added to a sample that is neither acidic nor basic. The colour of the litmus is [1]

(a) red
(b) blue
(c) purple
(d) colourless

3. Carbon dioxide turns lime water milky. The milkiness is due to the formation of [1]

(a) calcium hydrogencarbonate
(b) calcium carbonate
(c) calcium oxide
(d) calcium chloride

4. Rain water collected in an industrial town has a pH of 4.8. Which statement about it is correct? [1]

(a) It is neutral rain because its pH is close to 7.
(b) It is acid rain, but it does not affect aquatic life.
(c) It is basic rain, and it makes river water alkaline.
(d) It is acid rain, and its flow into rivers lowers the pH of the river water.

5. Which of the following is a synthetic indicator? [1]

(a) Turmeric
(b) Red cabbage extract
(c) Methyl orange
(d) Litmus

6. Kabir is stung by a honeybee while gardening. What kind of substance does the sting inject, and why does applying baking soda to the spot give relief? [2]

7. Soil tests on a farm near Shillong show that the soil is too acidic. Why must the farmer correct it, and name two substances that can be added to do so. [2]

8. Define water of crystallisation. Crystals of washing soda contain ten water molecules per formula unit, yet they feel dry. Why? [2]

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9. (a) Name the acid produced in the stomach and state its role. (b) How does an antacid relieve indigestion? Name one antacid. (c) Why must the body's pH stay within a narrow range? [3]

10. (a) Write the balanced equation for the reaction of zinc with sodium hydroxide solution on warming, and name the salt formed. (b) Zinc oxide reacts with both hydrochloric acid and sodium hydroxide to give a salt and water. What is such an oxide called? Write the equation for its reaction with hydrochloric acid. [3]

11. State whether the aqueous solution of each salt is acidic, basic or neutral, naming the acid and the base from which it is formed: (a) potassium sulphate (b) sodium acetate (c) sodium hydrogencarbonate. [3]

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