

## Chemistry Worksheet Class 7 on Chapter 5 Acids, Bases and Salts with Answers - Set 2

**Q1.** Window cleaner contains

- (a) Magnesium hydroxide
- (b) Ammonium hydroxide
- (c ) Calcium hydroxide
- (d) None of the above

**Answer:** (b) Window cleaner contains ammonium hydroxide.

**Q2.** Tamarind, grapes and unripe mangoes contain

- (a) Tartaric acid
- (b) Citric acid
- (c ) Ascorbic acid
- (d) Both (b) and (c )

**Answer:** (a) Tamarind, grapes, and unripe mangoes contain tartaric acid.

**Q3.** What is the chemical name of baking soda?

- (a) Potassium hydrogen carbonate
- (b) Magnesium hydrogen carbonate
- (c ) Sodium hydrogen carbonate
- (d) None of the above

**Answer:** (c ) The chemical name of baking soda is sodium hydrogen carbonate.

**Q4.** What is the effect of aerated drinks or soda water on the china rose indicator?

- (a) Light pink to green
- (b) Light pink to magenta
- (c ) Green to light pink
- (d) Magenta to light pink

**Answer:** (b) Aerated drinks or soda water turns the china rose indicator from light pink to magenta.

**Q5.** Excessive use of fertilisers in the land makes the land

- (a) Acidic
- (b) Alkaline
- (c ) Neutral
- (d) All of the above

**Answer:** (a) Excessive use of fertilisers in the land makes the land acidic.

**Q6.** State true or false.

Acid turns blue litmus red.

**Answer:** True, acid turns blue litmus red.

**Q7.** State true or false.

Acetic acid is present in vinegar, whereas citrus fruits contain citric acid.

**Answer:** True, acetic acid is present in vinegar, whereas citrus fruits contain citric acid.

**Q8.** State true or false.

Antacids are acidic substances.

**Answer:** False; antacids are basic substances.

**Q9.** Bases are \_\_\_\_\_ to touch.

**Answer:** Bases are **soapy** to touch.

**Q10.** Mineral acids are \_\_\_\_\_ acids.

**Answer:** Mineral acids are strong acids.

**Q11.** What is a base?

**Answer:** A base is a bitter substance that feels soapy to touch and turns red litmus blue.

**Q12.** What are indicators? Name two acid-base indicators.

**Answer:** An indicator is a substance that shows a colour change when brought in contact with an acid, base or neutral substance. Litmus and phenolphthalein are examples of acid-base indicators.

**Q13.** What will happen if a drop of hydrochloric acid is added to the blue litmus solution?

**Answer:** When the hydrochloric drop is added to the blue litmus solution, it will turn red.

**Q14.** (a) Name the acid present in car batteries.

(b) Name one strong acid and one weak acid.

**Answer:** (a) Sulphuric acid is present in car batteries.

(b) Hydrochloric acid is a strong acid, while acetic acid is a weak acid.

**Q15.** Name any three acids found in fruits.

**Answer:** Malic acid, tartaric acid and ascorbic acid are found in fruits.

**Q16.** An equal amount of acidic and basic substances are mixed.

(a) What is the name of the reaction?

(b) What product is formed?

**Answer:** If an equal amount of acidic and basic substances are mixed. Then

(a) The name of the reaction is the neutralisation reaction.

(b) The product formed is salt and water.

**Q17.** Why is a turmeric stain on a white shirt turned red when it is washed with soap?

**Answer:** Turmeric is a natural indicator which changes its yellow colour into reddish brown when it comes in contact with a solution of base. Hence, when soap (which is basic) is scrubbed on the stain, the stain turns red.

**Q18.** Why should we treat factory wastes before discharging them into water bodies?

**Answer:** We should treat factory wastes before releasing them into water bodies as factory wastes contain acids which, if untreated and discharged into water bodies, will cause harm to fish and other aquatic organisms living in water bodies. Therefore, they should be treated with essential substances to neutralise and then discharged into water bodies.

**Q19.** What happens when acidic soil is treated with purple cabbage juice?

**Answer:** When acidic soil is treated with purple cabbage juice, it will turn red. It is a great indicator and a test for acidity or alkaline soil.

**Q20.** What is soil treatment?

**Answer:** Soil treatment is the process in which contaminated soil, which cannot grow any crops, is treated to recycle and make it usable for agriculture or any other purpose.