

Practice sheet
Chapter: - 2
Acid, Base and Salt

Q1: A solution reacts with crushed egg-shells to give a gas that turns lime-water milky.

The solution contains

- (a) NaCl
- (b) HCl
- (c) LiCl
- (d) KCl

Q2: The combination of hydrochloric acid and sodium hydroxide solution forms:

- (a) common salt
- (b) caustic soda
- (c) bleaching powder
- (d) baking soda

Q3: Which one of the following types of medicine is used for treating indigestion?

- (a) Antibiotic
- (b) Analgesic
- (c) Antacid
- (d) Antiseptic

Q4: In acidic medium color of phenolphthalein will be:

- (a) Pink
- (b) Yellow
- (c) Blue
- (d) Colorless

Q5: Assertion (A): When an acid reacts with a metal carbonate or metal hydrogen carbonate, it gives the corresponding salt, carbon dioxide gas and water.

Reason (R): Acidic and basic solutions in water conduct electricity because they produce hydrogen and hydroxide ions respectively.

Q6: Assertion (A): Copper sulphate crystals turns white on heating.

Reason (R): Copper sulphate contains water of crystallisation.

- Q7:** Which gas is usually liberated when an acid reacts with a metal? Illustrate with an example. How will you test for the presence of this gas?
- Q8:** How is the concentration of hydronium ions (H_3O^+) affected when a solution of an acid is diluted?
- Q9:** Do basic solutions also have $\text{H}^+(\text{aq})$ ions? If yes, then why are these basic?
- Q10:** Write an equation to show the reaction between Plaster of Paris and water.
- Q11:** Name the substance which on treatment with chlorine yields bleaching powder.
- Q12:** A milkman adds a very small amount of baking soda to fresh milk.
(a) Why does he shift the pH of the fresh milk from 6 to slightly alkaline?
(b) Why does this milk take a long time to set as curd?
- Q13:** Why does distilled water not conduct electricity, whereas rain water does?