

## Acids Bases and Salts MCQ Questions with Answers

**Question:** When a bee stings, immediately a paste of lime is put on the sting. Why?

- a) Bee sting contains an acid called formic acid. It gets neutralised with  $\text{CaO}$ .
- b) Bee sting is made of a base.
- c) Bee sting is acidic due to hydrochloric acid and this is neutralised.
- d) All of the above.

**Question:** Why does dry  $\text{HCl}$  gas not change the colour of the dry litmus paper?

- a) No  $\text{H}_3\text{O}^+$  ions will be present, litmus changes colour only in the presence of  $\text{H}_3\text{O}^+$  ions.
- b) Blue litmus becomes dry in presence of dry  $\text{HCl}$  gas.
- c)  $\text{HCl}$  gas acts as a dehydrating agent.
- d) None of the options.

**Question:** How is the concentration of hydronium ions ( $\text{H}_3\text{O}^+$ ) affected when a solution of an acid is diluted?

- a) Increases
- b) Decreases
- c) Remains the same
- d) Becomes zero

**Question:** A calcium compound reacts with dilute hydrochloric acid to produce effervescence. The gas evolved extinguishes a burning candle. Identify the compound and the gas evolve

- a) Calcium Carbonate, Carbon dioxide
- b) Calcium chloride, carbon dioxide
- c) Calcium oxide, hydrogen
- d) Calcium carbonate, hydrogen

**Question:** Acids react with bases to form salt and water. This reaction is known as:

- a) Neutralisation
- b) Combination
- c) Decomposition
- d) reduction

**Question:** The millessness (on passing excess carbon dioxide gas through lime water) disappears due to the formation of:

- a) Calcium hydrogen carbonate  $\text{CaHCO}_3$
- b) Calcium carbonate  $\text{CaCO}_3$
- c) Calcium oxide  $\text{CaO}$
- d) Calcium Nitrate  $\text{Ca}(\text{NO}_3)_2$

**Question:** Lime water turns milky when carbon dioxide is passed due to the formation of \_\_\_\_.

- a)  $\text{CaCO}_3$
- b)  $\text{CaO}$
- c)  $\text{CO}_2$
- d)  $\text{CaSO}_4$

**Question:** Acids react with metal carbonates to liberate \_\_\_\_ gas

- a) Carbon dioxide
- b) Carbon monoxide
- c) Hydrogen
- d) Water

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- b) Carbon dioxide
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**Question:** You have been provided with three test tubes. One of them contains distilled water and the other two contain an acidic solution and a basic solution, respectively. Which of them will turn red litmus to blue.

- a) Base
- b) Acid
- c) Water
- d) All of the above