

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 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 HCl gas not change the colour of the dry litmus paper?

- a) No H_3O^+ ions will be present, litmus changes colour only in the presence of H_3O^+ ions.
- b) Blue litmus becomes dry in presence of dry HCl gas.
- c) HCl gas acts as a dehydrating agent.
- d) None of the options.

Question: How is the concentration of hydronium ions (H_3O^+) 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 evolved.

- 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 milkiness (on passing excess carbon dioxide gas through lime water) disappears due to the formation of:

- a) Calcium hydrogen carbonate CaHCO_3 .
- b) Calcium carbonate CaCO_3 .
- c) Calcium oxide 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) CaCO_3 .
- b) CaO .
- c) CO_2 .
- d) 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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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.