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 aci 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 asa 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 evolve

a) Calcium Carbonate, Carbon dioxide

b) Calcium chloride, carbondioxide

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 carbondioxide 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 $Ca(NO_3)_2$

**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

**Question:** Acids react with metals to liberate _____gas

a) Hydrogen

b) Carbon dioxide

c) Carbon monoxide

d) Water

**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

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