

CHEMISTRY

ACIDS, BASES and SALTS

Q1 A gas (X) reacts with the limewash applied on the walls to produce a salt (Y). Identify (X), (Y) and the type of reaction.

- (A) (X): H_2 : (Y): CaCO_3 , Neutralisation
 ✓ (B) (X): CO_2 : (Y): CaCO_3 , Neutralisation
 (C) (X): CO_2 : (Y): Ca(OH)_2 , Precipitation
 (D) (X): H_2S : (Y): Ca(OH)_2 , Double displacement

Q2 Which of the following substances will not give carbon dioxide on treatment with dilute acid?

- (A) Marble (B) Limestone
 (C) Baking soda ✓ (D) Slaked lime

Q3 Which of the following is not a mineral acid?

- (A) Hydrochloric acid
 ✓ (B) Citric acid
 (C) Sulphuric acid
 (D) Nitric acid

Q4 Match the acids given in Column (A) with their correct source given in Column (B).

	Column A		Column B
(a)	Lactic acid	(i)	Tomato
(b)	Citric acid	(ii)	Lemon
(c)	Oxalic acid	(iii)	Curd

- (A) (a) - (i), (b) - (iii), (c) - (ii)
 (B) (a) - (ii), (b) - (iii), (c) - (i)
 ✓ (C) (a) - (iii), (b) - (ii), (c) - (i)
 (D) (a) - (i), (b) - (ii), (c) - (iii)

Q5 Which among the following is incorrect?

- (A) $\text{Zn(s)} + 2\text{dil. HCl(aq)} \rightarrow \text{ZnCl}_2\text{(aq)} + \text{H}_2\text{(}\uparrow\text{)}$
 (B) $\text{Mg(s)} + 2\text{dil. H}_2\text{SO}_4\text{(aq)} \rightarrow \text{MgSO}_4\text{(aq)} + \text{H}_2\text{(}\uparrow\text{)}$
 (C) $2\text{Al(s)} + 6\text{dil. HCl(aq)} \rightarrow 2\text{AlCl}_3\text{(aq)} + 3\text{H}_2\text{(}\uparrow\text{)}$
 ✓ (D) $\text{Cu(s)} + 2\text{dil. HCl(aq)} \rightarrow \text{CuCl}_2\text{(aq)} + \text{H}_2\text{(}\uparrow\text{)}$



Answer Key

Q1 (B)

Q2 (D)

Q3 (B)

Q4 (C)

Q5 (D)



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Hints & Solutions

Q1 Text Solution:

Hint: Metal carbonate/bicarbonate + Acid \rightarrow Salt + Carbonic Acid
Carbonic acid further dissociates.

Video Solution:**Q2 Text Solution:**

slaked lime (calcium hydroxide) on treatment with acid does not release carbon dioxide gas. whereas any metal carbonate or bicarbonate on reaction with acid releases salt, water and carbon dioxide.

Video Solution:**Q3 Text Solution:**

Hint: Identify the one obtained from plants and animals.

Video Solution:**Q4 Text Solution:**

Citrus fruits contain citric acid.

Video Solution:**Q5 Text Solution:**

The metal below hydrogen in the reactivity series can't displace it.

Video Solution:[Android App](#)[| iOS App](#)[| PW Website](#)