

Choose the correct answer and write its letter in the bracket.

Which of the following is correct ? ()

- A) $\text{Zn} + \text{HCl} \longrightarrow \text{ZnCl}_2 + \text{H}_2$
B) $2 \text{Zn} + \text{HCl} \longrightarrow 2 \text{ZnCl}_2 + \text{H}_2$
C) $\text{Zn} + 2 \text{HCl} \longrightarrow \text{ZnCl}_2 + \text{H}_2$
D) $\text{Zn} + 2 \text{HCl} \longrightarrow \text{ZnCl}_2 + \text{H}_2$

Downward arrow (\downarrow) in a chemical equation indicates..... ()

- A) Direction B) Gas
C) Precipitate D) No reaction

The colour of Lead iodide precipitate formed due to the reaction of lead nitrate and Potassium iodide is ()

- A) blue B) black
C) green D) yellow

Which of the following is a skeleton reaction ? ()

- A) $\text{C}_3\text{H}_8 + \text{O}_2 \longrightarrow \text{CO}_2 + \text{H}_2\text{O}$
B) $\text{Fe}_2\text{O}_3 + 2\text{Al} \longrightarrow 2\text{Fe} + \text{Al}_2\text{O}_3$
C) $\text{AgNO}_3 + \text{NaCl} \longrightarrow \text{AgCl} + \text{NaNO}_3$
D) $\text{Ca(OH)}_2 + \text{CO}_2 \longrightarrow \text{CaCO}_3 + \text{H}_2\text{O}$

CaO reacts with water to form ()

- A) CaCO_3 B) Ca(OH)_2
C) CaCl_2 D) $\text{Ca(NO}_3)_2$

Ammonia is formed by the reaction of gases ()

- A) H_2 and O_2 B) N_2 and O_2
C) N_2 and H_2 D) H_2 and He

A solution of potassium iodide reacts with lead nitrate to give ()

- A) KNO_3 B) PbI_2
C) A and B D) PbO

8. A solution of sodium carbonate reacts with Ca(OH)_2 to give ()

- A) CaCO_3 B) NaOH
C) both A and B D) CaO

9. When a small piece of zinc metal is added to a solution of Copper sulphate and on heating the products formed are ()

- A) CuO B) $\text{ZnSO}_4 + \text{Cu}$
C) ZnO D) $\text{H}_2 \uparrow$

10. The chemical reaction in which energy is absorbed to form a new compound is called ()

- A) exothermic reaction
B) endothermic reaction
C) thermal reaction
D) photochemical reaction

11. The substances that are present on left side of a chemical equation are called ()

- A) reactants B) products
C) precipitates D) gases

12. A chemical equation should be balanced because the law should be verified. ()

- A) constant proportions
B) conservation of mass
C) law of equality
D) law of balance

13. $\text{C} + \text{O}_2 \longrightarrow \text{CO}_2 + \text{Q}$. This is reaction. ()

- A) endothermic B) chemical
C) exothermic D) photochemical