

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

Which of the following is correct ? ()

- A) $Zn + HCl \rightarrow ZnCl_2 + H_2$
- B) $2Zn + HCl \rightarrow 2ZnCl_2 + H_2$
- C) $Zn + 2HCl \rightarrow ZnCl_2 + H_2$
- D) $Zn + 2HCl \rightarrow ZnCl_2 + H_2$

Downward arrow (↓) 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) $C_3H_8 + O_2 \rightarrow CO_2 + H_2O$
- B) $Fe_2O_3 + 2Al \rightarrow 2Fe + Al_2O_3$
- C) $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$
- D) $Ca(OH)_2 + CO_2 \rightarrow CaCO_3 + H_2O$

CaO reacts with water to form ()

- A) $CaCO_3$
- B) $Ca(OH)_2$
- C) $CaCl_2$
- D) $Ca(NO_3)_2$

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) $ZnSO_4 + Cu$
- C) ZnO
- D) $H_2 \uparrow$

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. $C + O_2 \rightarrow CO_2 + Q$. This is reaction. ()

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