

- 17 one of the following does not happen during a chemical reaction this is:
- (a) Breaking of old chemical bonds and formation of new chemical bonds.
  - (b) Formation of new substances with entirely different properties.
  - (c) ~~Atoms~~ Atoms of one element change into those of another element to form new products.
  - (d) A rearrangement of atoms takes place to form new products.
- 24 Which of the following does not involve a chemical reaction?

- (a) Digestion of food in our body
- (b) Process of respiration
- (c) Burning of candle ~~wax~~ wax when heated
- ~~(d)~~ Melting of candle wax on heating

3) You are given the solution of lead nitrate. In order to obtain a yellow precipitate, you should mix it with a solution of:

- (a) Potassium chloride
- (b) Potassium Nitrate
- (c) Potassium Sulphate
- ~~(d)~~ Potassium iodide

4) An acid which can decolorize purple coloured potassium permanganate solution is:

- (a) Sulphuric acid
- ~~(b)~~ Citric acid
- (c) Carbonic acid
- ~~(d)~~ Hydrochloric acid

5) The chemical reaction between quick lime and water is characterized by:

- (a) evolution of hydrogen gas
- (b) Formation of slaked lime precipitate
- (c) change in temperature of mixture
- (d) change in colour of the product.

6) One of the following is an exothermic reaction. This is

- (a) Electrolysis of water
- (b) Conversion of lime stone into quick lime
- (c)  Process of respiration
- (d) Process of photosynthesis

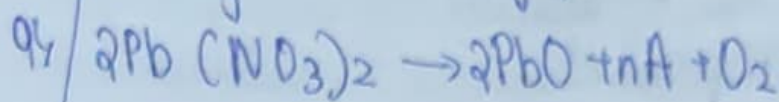
7) The chemical equations are balanced to satisfy one of the following laws in chemical reactions. This law is known as

- (a)  Law of Conservation of momentum
- (b) Law of Conservation of mass
- (c) Law of Conservation of motion
- (d) Law of Conservation of magnetism

8) The chemical reaction between quick lime and water

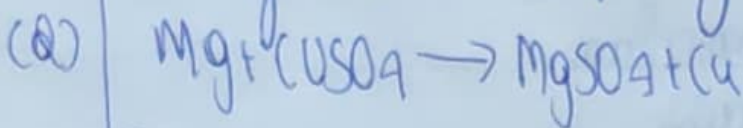
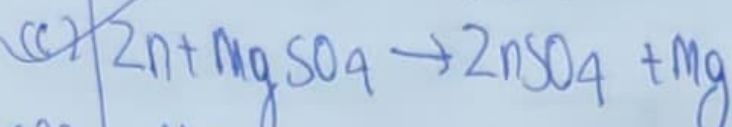
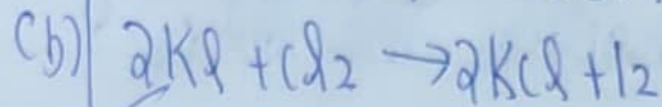
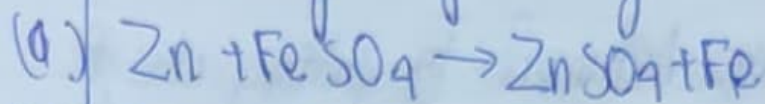
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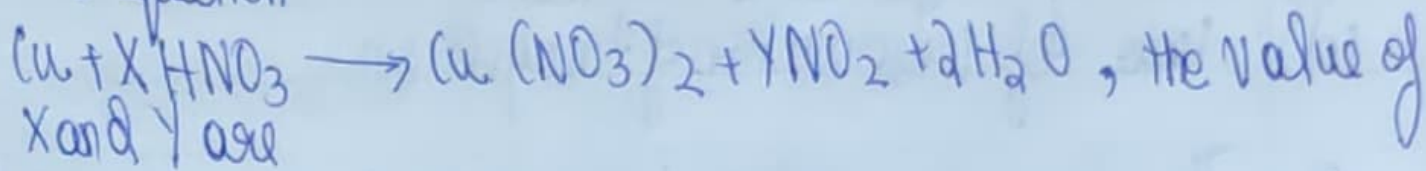


- (a) 4NO
- (b) 4NO<sub>2</sub>
- (c) 2PbNO<sub>2</sub>
- (d) NO<sub>2</sub>

109 Which of the following reaction will not take place?



114 The equation



- (a) 3 and 1 respectively

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- (b) 8 and 6 respectively  
(c) 9 and 2 respectively  
(d) 7 and 1 respectively

129 When the ~~gas~~ gases sulphur dioxide and hydrogen sulphide mix in the presence of water, the reaction  $SO_2 + 2H_2S \rightarrow 2H_2O + 3S$  occurs. Here hydrogen sulphide is acting as:

- (a) an oxidizing agent  
(b) a reducing agent  
(c) a dehydrating agent  
(d) a catalyst.

130 The layer on iron nails when they are dipped in copper sulphate solution is:

- (a) Soft and dull  
(b) Hard and shiny  
(c) Hard and dull  
(d) None of these

144 The substances which combine or react are known as:

- (a) Reactant

(b) Product

(c) Reaction

(d) Catalyst

15) The new substances formed during chemical reactions are known as:

(a) Catalyst

(b) Reactant

(c) Product

(d) Equation

16) The process of Respiration is:

(a) an oxidation reaction which is endothermic

(b) a reduction reaction which is exothermic

(c) a combination reaction which is endothermic

(d) an oxidation reaction which is exothermic

17) In the context of redox reaction, the removal of hydrogen from substance is known as:

(a) oxidation

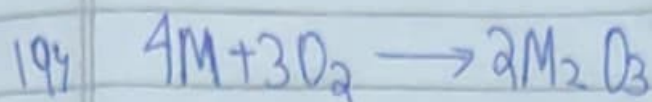
(b) dehydration

(c) Reduction

(d) Dehydrogenation.

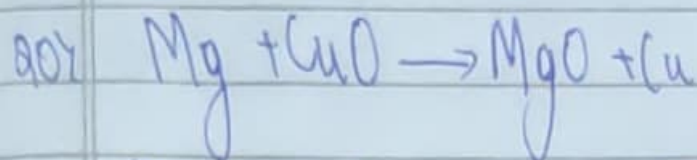
18) The chemical reaction involved in the corrosion of iron metal is that of:

- (a) oxidation as well as displacement
- (b) Reduction as well as ~~oxidation~~ combination
- (c)  oxidation as well as combination
- (d) Reduction as well as displacement



This equation represents:

- (a) combination reaction as well as reduction reaction.
- (b) Decomposition reaction as well as oxidation reaction.
- (c) oxidation reaction as well as displacement reaction.
- (d)  combination reaction as well as oxidation reaction.



This equation represents

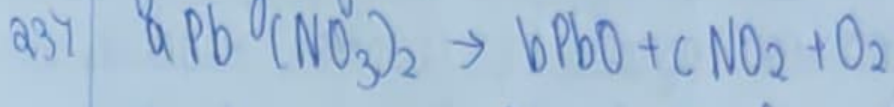
- (a)  Decomposition reaction as well as displacement reaction
- (b) combination reaction as well as double displacement reaction.

- (c) Redox reaction as well as displacement reaction.
- (d) Double displacement reaction as well as redox reaction.
- 217 Which of the following is a balanced chemical equation?

- (a)  $H_2O_2 \rightarrow H_2O + O_2$
- (b)  $2Fe_2O_3 + 3C \rightarrow 4Fe + 3CO_2$
- (c)  $SO_2 + O_2 + 2H_2O \rightarrow 4H_2SO_4$
- (d)  $2Mg + HCl \rightarrow MgCl_2 + H_2$

222 The term rancidity represents

- (a) Acid rain
- (b) oxidation of fatty food
- (c) scattering of light
- (d) fading of the coloured clothes in the sun.



a, b, c, in the above balanced equation is:

- (a) 2, 2, 4
- (b) 4, 4, 8
- (c) 3, 3, 6
- (d) 2, 2, 2

241 Corrosion can be prevented by:

- (a) Alloying
- (b) Tinning
- (c) Galvanizing



(d) All of the above

254. As compare to Iron, Aluminium has:

- (a) Higher tendency to oxidize
- (b) lesser tendency to oxidize
- (c) equal tendency to oxidize
- (d) none of the above