

# Assignment

1) One of the following does not happen during a chemical reaction. This is :-

Ans. (d) A rearrangement of atoms takes place to form new products.

2) Which of the following does not involve a chemical reaction?

Ans. (d) melting of candle wax on ~~heating~~ 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 :-

Ans. (d) Potassium Iodide

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

Ans. (a) Sulphuric acid

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

Ans. Evolution of hydrogen gas.

6 → One of the following is an exothermic reaction. This is:

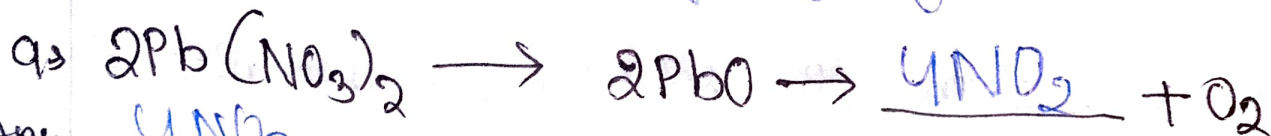
Ans. (c) Process of respiration

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

Ans. (b) Law of conservation of mass.

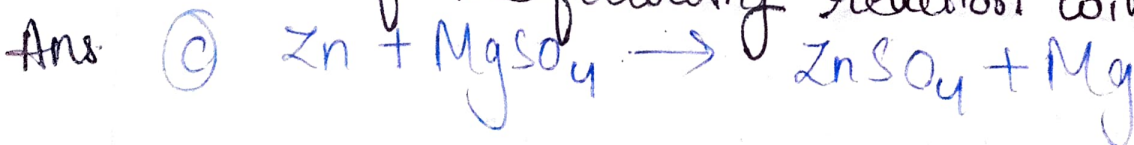
8 → The chemical reaction between quick lime and water is characterized by:-

Ans. (a) Evolution of hydrogen gas



Ans.  $4\text{NO}_2$

10 → Which of the following reaction will not take place?



11) The equation:-  $\text{Cu} + X\text{HNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + Y\text{NO}_2 + 2\text{H}_2\text{O}$ ; the value of X and Y are:

Ans. (c) 4 and 2 respectively.

12) When the gases sulphur dioxide and Hydrogen sulphide mix in the presence of water, the reaction  $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow 2\text{H}_2\text{O} + 3\text{S}$  occurs. Here hydrogen sulphide is acting as:

Ans. (b) a reducing agent

13) The layer on iron nails when they are dipped in copper sulphate solution is:-

Ans. (c) Hard and dull.

14) The substances which combine or react are known as:-

Ans. (a) Reactant

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

Ans. (c) Product

16) The process of Respiration is:

Ans. (a) an oxidation reaction which is ~~an~~ endothermic

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

Ans. (a) Oxidation.

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

Ans. (c) oxidation as well as combination.

19)  $4M + 3O_2 \rightarrow 2M_2O_3$ , This equation represents:-

Ans. (a) Combination reaction as well as oxidation reaction

20)  $Mg + CuO \rightarrow MgO + Cu$ , This equation represents

Ans. (c) Redox reaction as well as displacement reaction

21) Which of the following is a balanced chemical equation?

Ans. (b)  $2Fe_2O_3 + 3C \rightarrow 4Fe + 3CO_2$

22) The term rancidity represents.

Ans. (b) oxidation of fatty food.

23)  $a Pb(NO_3)_2 \rightarrow b PbO + c NO_2 + O_2$ , a, b, c in the above balanced equation is:-

Ans. (a) 2, 2, 4

24)

Ans.

Corrosion can be prevented by:-

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

25)

Ans.

As compare to iron, Aluminium has :-

- (b) lesser tendency