



Class :- 10th

K. R. D. International School

Subject - CHEMISTRY



Worksheet-1

Chapter:- 1 Chemical reactions and equations.

Ques 1. Write the chemical equation for the following reactions.

- Liquid hydrogen peroxide decomposes to form water and hydrogen gas.
- Acetylene gas burns in oxygen to form carbon dioxide and water along with evolution of heat.
- When solid mercury (II) oxide is heated, liquid mercury and oxygen gas are produced.
- Marbles dissolves in hydrochloric acid to give calcium chloride, water and carbon dioxide.

Ques 2. Fill in the blanks:-

-is the magnetic oxide of iron
- In reactivity series manganese lies.....zinc
- Protein decomposes to form.....
- If copper turnings are added to colourless AgNO_3 solutions, it turnsafter sometime

Ques 3. State true and false, if false then write reason:-

- In a closed vessel the reaction between heated iron and steam is reversible
- Al is highly corrosion resistant
- Respiration is the process by which glucose in the body gets oxidised
- A chemical reaction is always accompanied by change in temperature

Ques 4. What is rancidity? List two methods for preventing rancidity?

Ques 5. What data can be extracted from the balanced chemical equations?

Statement for Linked answer questions (6-9) :-

It is common to notice that iron article rust faster in wet weather than dry weather. silver articles, on the other hand, turns black in air in any season and aluminum articles, when exposed to moist air, lose their luster and surface becomes dull for a while, and copper vessels become coated with a green layer. Iron sheets coated with zinc are frequently used to protect iron from rusting, such as in buckets and iron water pipes.

Ques6. Why is rusting faster in rainy season?

Ques7. Why do silver articles turn black in air?

Ques8. Why does copper get coated with a green layer?

Ques9. Aluminium oxide is formed as a result of the attack of moist air on aluminum. How is this attack beneficial?

Multiple choice questions :-

Ques10. Which of the following does not involve a chemical change?

- Fermentation of grapes
- Respiration
- Condensation of water
- Turning brown a freshly cut apple in the air

Ques11. The reaction that produces heat is

- exothermic reaction
- Endothermic reaction
- decomposition reactions
- double decomposition reactions

Ques12. Rusting is a/an

- oxidation
- reduction
- decomposition
- displacement