

### 3. Chemical Reactions and Equation

(MCQ Questions)

#### Q. 1 Rewrite the statements by filling the blanks

1. Biological waste gets decomposed by microorganisms and forms manure and .....
2. Under favourable conditions .....is formed when yeast is mixed with glucose solution
3. The chemical reaction in which  $H_2(g)$  is produced is called as .....reaction
4. The chemical reaction in which heat is given out is called as .....reaction
5. ....is the chemical formula of rust
6. The reaction in which heat is absorbed is called as ..... reaction.
7. The rusting of iron is .....process
8. Edible oil or ghee becomes .....if kept for long period
9. For avoiding the oxidation of edible oil .....is used.
10. The slow corrosion of metals due to moisture in the air or effect of acids is called as .....

#### Q. 2 Match the pairs.

##### Column A

1. Reduction
2. Oxidation
3. Double displacement
4. Displacement

##### Column B

- a) type of chemical reaction
- b) accept Hydrogen
- c) give out Hydrogen
- d) exchange of ions

**Column A**

1. Edible oil kept for long
2. Dissolve NaOH in water
3. zinc powder in solution of copper sulphate
4. rusting of iron

**Column B**

- a) slow reaction
- b) rancidity
- c) exothermic reaction
- d) colorless solution

**Column A**

1. Combination reaction
2. Double displacement
3. Decomposition reaction
4. Displacement reaction

**Column B**

- a)  $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2\text{O}(\text{g})$
- b)  $\text{C}_{12}\text{H}_{22}\text{O}_{11}(\text{s}) \rightarrow 12\text{C}(\text{s}) + 11\text{H}_2\text{O}(\text{g})$
- c)  $2\text{Cu} + \text{O}_2 \rightarrow 2\text{CuO}$
- d)  $\text{AgNO}_3 + \text{NaCl} \rightarrow \text{AgCl} + \text{NaNO}_3$

**Q. 3 Write true or false**

1. rusting of iron is a fast reaction
2. Turning of milk into curds is a chemical reaction
3. Reaction between salt and water is exothermic reaction
4. The rate of chemical reactions depends on the nature of reactants
5. The short form of chemical reaction is known as equation in word form
6. Use of antioxidants helps in preventing the oxidation of edible oils
7. The chemical formula of rust is  $\text{Fe}_3\text{O}_4 \cdot x\text{H}_2\text{O}$ .
8. The reaction in which heat is given out is called as endothermic reaction

**Q. 4 Rewrite the statements by filling the blanks**

1. Reaction between iron nail and copper sulphate solution is a .....reaction
  - a) combination
  - b) decomposition
  - c) displacement
  - d) double decomposition
2. When Zinc powder is added to copper sulphate solution .....solution is formed
  - a) blue colored
  - b) red colored
  - c) colorless
  - d) green colored
3. When Ferrous sulphate crystals is given heat .....residue is formed in the test tube
  - a) red colored
  - b) green colored
  - c) blue colored
  - d) colorless

**Q. 5 What is oxidant? Explain with examples**

**Q. 6 write definition: Reduction**

**Q. 7 What is a reductant or reducing agent ? give an example.**

**Q. 8 What is corrosion ?**

**Q. 9 Explain : Rancidity**