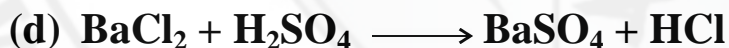
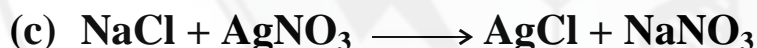
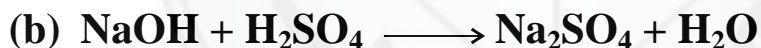
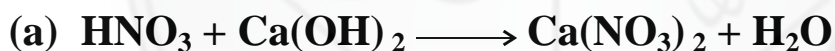


## CHEMICAL REACTION

1. In the equation  $\text{Cu} + x\text{HNO}_3 \longrightarrow \text{Cu}(\text{NO}_3)_2 + y\text{NO}_2 + 2\text{H}_2\text{O}$   
The values of x and y are (1) 3 and 5 (2) 8 and 6 (3) 4 and 2 (4) 7 and 1
2. in the reaction given below, a, b, c and d respectively are  $a\text{Fe}_2\text{O}_3 + b\text{H}_2 \longrightarrow c\text{Fe} + d\text{H}_2\text{O}$   
(1) 1, 1, 2, 3 (2) 1, 1, 1, 1 (3) 1, 3, 2, 3 (4) 1, 2, 2, 3
3. Chemical changes are \_\_\_\_\_.  
(1) temporary, reversible and a new substance is produced  
(2) always accompanied by exchange of light  
(3) permanent, irreversible and a new substance is produced  
(4) never accompanied by exchange of light and heat energy
4. The reaction,  $\text{H}_2 + \text{Cl}_2 \longrightarrow 2\text{HCl}$  is  
(1) decomposition reaction (2) displacement reaction (3) a combination reaction (4) an isomerisation reaction
5. Define a chemical reaction
6. What are the necessary conditions for a chemical reaction
7. What do mean by combination reactions and what are the ways of chemical combination explain with example
8. What do you mean by decomposition reactions
9. Balance the chemical reactions



# CHEMICAL REACTIONS

## DPP 2

1. Which of the following are exothermic process?  
A. Reaction of water with quicklime  
B. Dilution of acid  
C. Evaporation of water  
D. Sublimation of camphor  
a) A B  
b) A D  
c) B C  
d) B D
2.  $\text{MnO}_2 + 4\text{HCl} \longrightarrow \text{MnCl}_2 + 2\text{H}_2\text{O} + \text{Cl}_2$   
Identify substance which is oxidised  
a)  $\text{MnCl}_2$   
b)  $\text{HCl}, 2\text{H}_2\text{O}$   
c)  $\text{H}_2\text{O}$   
d)  $\text{MnO}_2$
3. Select the oxidising agent among the following  
 $\text{H}_2\text{S} + \text{I}_2 \longrightarrow 2\text{HI} + \text{S}$   
a)  $\text{H}_2\text{S}$   
b)  $\text{HI}$   
c)  $\text{I}_2$   
d)  $\text{S}$
4. What type of reaction occurs when current is passed through water?  
a) Displacement  
b) Combination  
c) Decomposition  
d) Double displacement
5. Substance added to food containing oils and fats is  
a) Oxidant  
b) Reductant  
c) Antioxidant  
d) Antireductant
6. Formula of calcium nitride is  
a)  $\text{Ca}_3\text{N}_2$   
b)  $\text{Ca}_2\text{N}_3$   
c)  $\text{CaN}_3$   
d)  $\text{CaN}_2$
7.  $\text{Fe}_2\text{O}_3 + 2\text{Al} \longrightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$   
a) Combination  
b) Displacement  
c) Decomposition  
d) Double displacement
8. Ferrous sulphate on heating produces  
a) Ferric oxide  
b) Carbon dioxide  
c) Oxygen  
d) Water
9. Which of following is combustion reaction  
a) Boiling of water  
b) Burning of petrol  
c) Melting of wax  
d) None
10. In oxidation reaction oxidation number....  
a) Increases  
b) Decreases  
c) No effect  
d) other
11. Which of the following reaction is endothermic?  
(1)  $\text{C} + \text{O}_2 \longrightarrow \text{CO}_2$   
(2)  $\text{CaCO}_3 \longrightarrow \text{CaO} + \text{CO}_2$   
(3)  $\text{CH}_4 + 2\text{O}_2 \longrightarrow \text{CO}_2 + 2\text{H}_2\text{O}$   
(4)  $\text{CaO} + \text{H}_2\text{O} \longrightarrow \text{Ca(OH)}_2$
12. Which of the following reaction is based on activity series of metals?  
(1) Decomposition reaction  
(2) Displacement reaction

- (3) Double displacement reaction  
13 Which of the following reaction is based on activity series of metals?  
(1) Decomposition reaction  
(2) Displacement reaction
- (4) Synthesis reaction  
(3) combination reaction  
(4) Double displacement reaction

