## Oxidation and Reduction

**Answer sheet in the last**

Show oxidation and reduction and also sate the oxidising and reducing agent

1. $CuO+H_2$ -----> $Cu+H_2O$
2. $H_2S+Cl_2$ -----> $S+HCl$
3. $ZnO+C$ -----> $Zn+CO$
4. $MnO_2+HCl$ -----> $MnCl_2+Cl_2+H_2O$
5. $Cu+O_2$ -----> $CuO$
6. $SO_2+H_2S$ -----> $H_2O+S$
7. $H_2S+I_2$ -----> $HI+S$
8. $Na+O_2$ -----> $Na_2O$
9. $PbO+C$ -----> $Pb+CO$
10. $K+Cl_2$ -----> $Kcl$
11. $Fe+H_2SO_4$ -----> $Fe_2(SO_4)_3+H_2$
12. $NH_3+O_2$ -----> $NO+H_2O$
13. $N_2+H_2$ -----> $NH_3$
14. $Fe_2O_3+CO$ -----> $Fe+CO_2$
15. $Al+HCl$ -----> $AlCl_3+H_2$
16. $H_2+O_2$ -----> $H_2O$
17. $Zn+AgNO_3$ -----> $Zn(NO_3)_2+Ag$
18. $Mg+N_2$ -----> $Mg_3N_2$
19. $SiO_2+HF$ -----> $SiF_4+H_2O$
20. $C_{10}H_{16}+C_{l2}$ -----> $C+HCl$

## Oxidation and reduction answers

1. CuO reduced and H2 oxidised

   CuO oxidising agent and H2 reducing agent

2. H2S oxidised and Cl2 reduced

   H2S reducing agent and Cl2 oxidising agent

3. ZnO is reduced and C is oxidised

   ZnO is oxidising agent and C is reducing agent

4. MnO2 reduced and HCl oxidised

   MnO2 oxidising agent and HCl reducing agent

5. Cu oxidised and O2 reduced

   Cu reducing agent and O2oxidising agent

6. SO2 reduced and H2S oxidised

   SO2 oxidising agent and H2S reducing agent

7. H2S oxidised and I2 reduced

   H2S reducing agent and I2 oxidising agent

8. Na oxidised and O2 reduced

   Na reducing agent and O2 oxidising agent

9. PbO reduced and C oxidised

   PbO oxidising agent and C reducing agent

10. K oxidised and Cl2 reducing agent

    K reducing agent and Cl2 oxidising agent

11. Fe is oxidised and $H_2SO_4$ is reduced

    Fe is reducing agent and $H_2SO_4$ is oxidising agent

12. $NH_3$ is oxidised and $O_2$ is reduced

    $NH_3$ is reducing agent and $O_2$ is oxidising agent

13. $N_2$ is reduced and $H_2$ is oxidised

    $N_2$ is oxidising agent and $H_2$ is reducing agent


14. $Fe_2O_3$ is reduced and CO is oxidised

    $Fe_2O_3$ is oxidising agent and CO is reducing agent

15. Al is oxidised and HCl is reduced

    Al is reducing agent and HCl is oxidising agent

16. $H_2$ is oxidised and $N_2$ is reduced

    $H_2$ is reducing agent and $N_2$ is oxidising agent

17. Zn is oxidised and $AgNO_3$ is reduced

    Zn is reducing agent and $AgNO_3$ is oxidising agent

18. Mg is oxidised and $N_2$ is reduced

    Mg is reducing agent and $N_2$ is oxidising agent

19. $SiO_2$ is reduced and HF is oxidised

    $SiO_2$ is oxidising agent and HF is reducing agent

20. $C_{10}H_{16}$ is oxidised and $Cl_2$ is reduced

    $C_{10}H_{16}$ is reducing agent and $Cl_2$ is oxidising agent