

Q:-1. Write down examples of monoatomic, diatomic, triatomic and polyatomic molecules?

Ans:- Monoatomic $\rightarrow$ Na, Zn, Mg etc. and all noble gases

Diatomic:- H_2 , O_2 , N_2 , F_2 , Cl_2 etc.

Triatomic:- ozone (O_3)

Polyatomic:- P_4 , S_8

Q2 Write the names of the element present in the following compound.

- a) Sugar b) Ammonia c) Sulphur dioxide

Ans:- a) Sugar $\rightarrow C_{12}H_{22}O_{11} \rightarrow$ Twelve atoms of carbon, twenty two atoms of hydrogen and eleven atoms of oxygen

b) Ammonia $\rightarrow NH_3 \rightarrow$ One atom of nitrogen and three atoms of hydrogen

c) Sulphur dioxide $\rightarrow SO_2 \rightarrow$ One atom of sulphur and two atoms of oxygen.

Q:- what is the valency of nitrogen, phosphorus and sulphur?

Ans:- Nitrogen $\rightarrow 3$
phosphorus $\rightarrow 5$
sulphur $\rightarrow 2, 4 \text{ and } 6$

Q:- How many groups and periods are present in modern periodic table?

Ans:- groups $\rightarrow 18$
Periods $\rightarrow 7$

Q:- which group contain active metals?

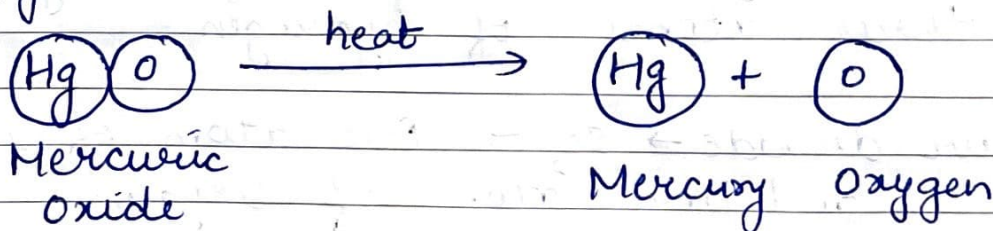
Ans:- group 1 or group IA contain active metals
e.g. lithium, sodium etc.

Q:- Give example of basic and acidic radical?

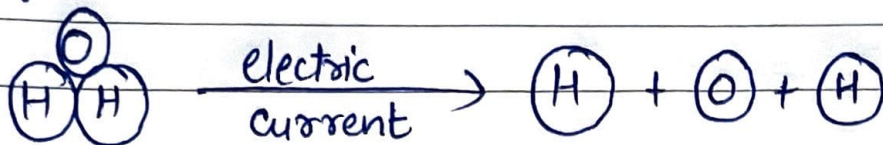
Ans:- Basic Radical $\rightarrow \text{Na}^+, \text{K}^+, \text{Mg}^{2+}$
Acidic Radical $\rightarrow \text{F}^-, \text{Br}^-$

Q:- Give example of a molecule of compound which can be broken into its constituent elements using heat and electric current?

Ans:- By heat:-

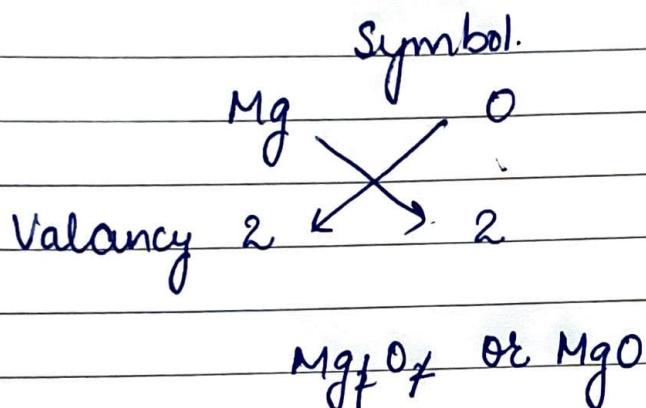


By electric current:-

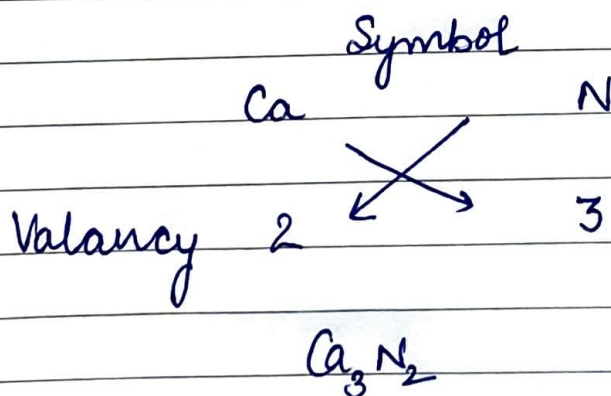


Q:- Write chemical formula of Magnesium oxide, Calcium nitride, Ammonium carbonate

Ans:- Magnesium oxide:-



Calcium nitride



Ammonium Carbonate

