

B. M. A. College Bahari Darbhanga.

CHEMISTRY C. CHAUDHARY

Mobile No.: 9006605185

Topic: - Manufacture of H_2SO_4 by

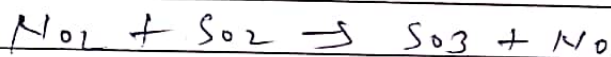
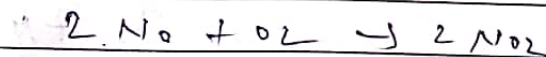
LEAD CHAMBER PROCESS

In lead chamber process H_2SO_4 is manufactured as follows.

First "S" is burnt and SO_2 is obtained



For oxidising SO_2 to SO_3 , NO is used. First NO is oxidised into NO_2 and then NO_2 oxidises SO_2 into SO_3 .



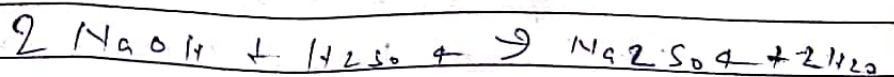
NO acts as oxygen carrier.

SO_3 on reaction with H_2O gives H_2SO_4



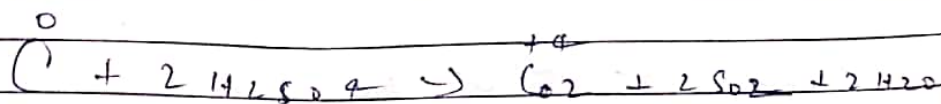
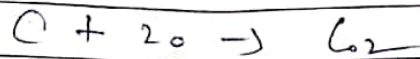
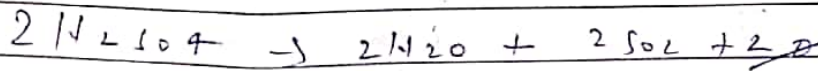
Properties of H_2SO_4

Sulphuric is a dibasic acid. It forms two types of salt.



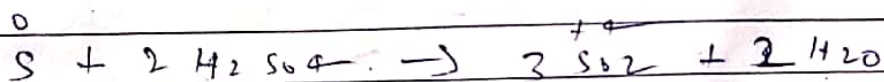
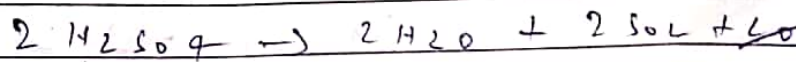
(ii) Hot conc. H_2SO_4 oxidises

Carbon into Carbon dioxide.



Oxidation no. of Carbon changes 0 to $+4$, therefore it is an oxidation reaction.

(iii) It oxidises "S" into SO_2



Since oxidation no. of "S" changes 0 to $+4$, therefore it is an oxidation reaction.

(iv) on reaction with metal
it liberates H_2 gas.



(v) It reacts with C_2H_5OH and liberates

C_2H_4

