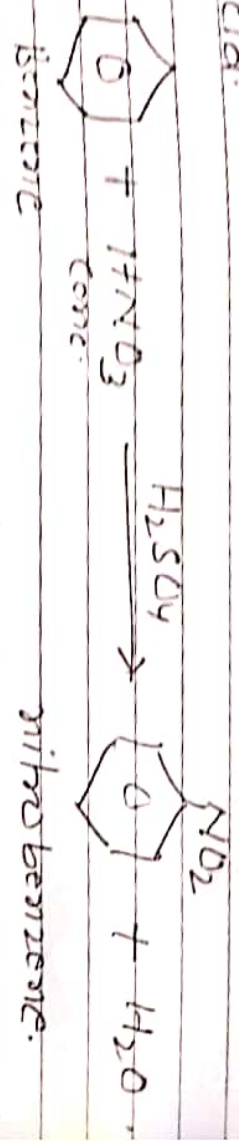


Mechanism of Nitration of benzene.

The reaction involves the bombardment of an aromatic compound with a mixture of nitric acid and sulphuric acid.

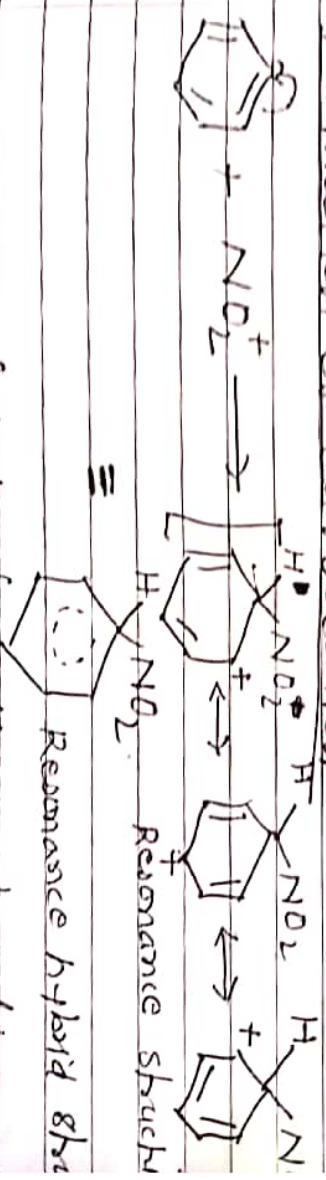


Mechanism :-

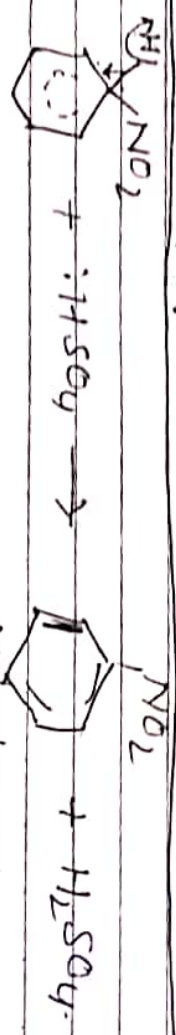
The various steps in the nitration of benzene can be outlined as below.



Formation of carbocation.



Abstraction of proton from the carbocation.

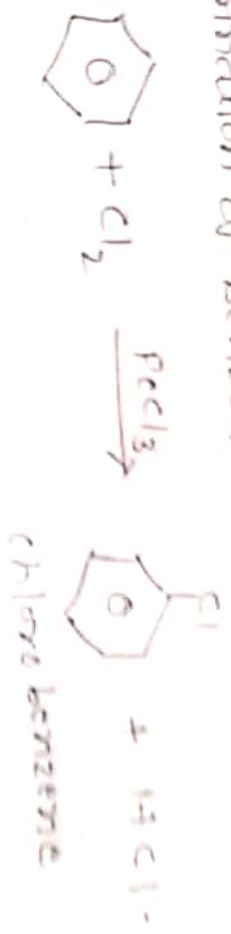


Teacher's Signature :

Mechanism of Halogenation of benzene:

Halogenation of benzene and other hydrocarbons can be brought about by treating with halogens in the presence of Lewis acids such as ferric halides, anhydrous aluminum chloride.

Chlorination of benzene is considered below:



Mechanism: Various steps involved in the reaction are as follows:

Generation of electrophiles:

