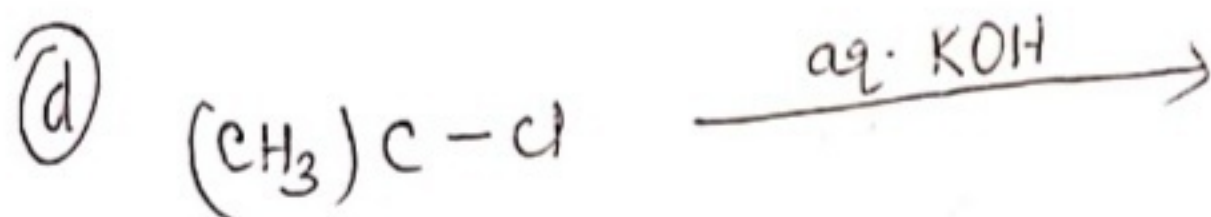
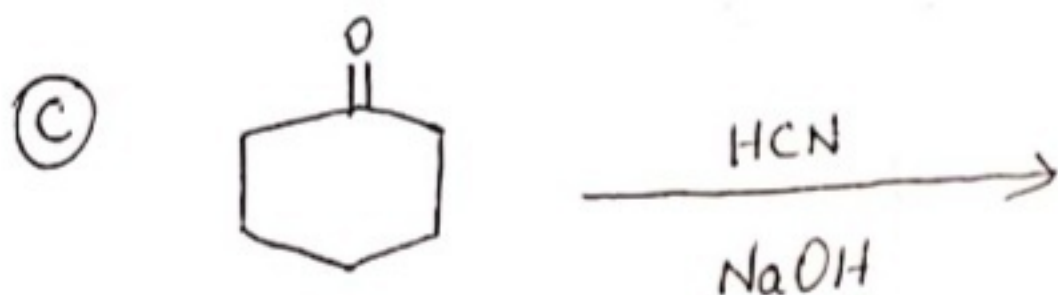
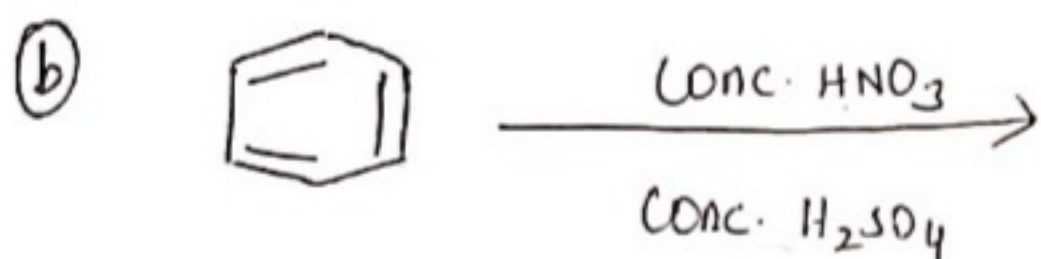
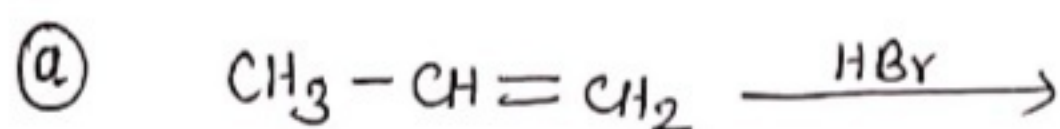


IMPORTANT QUESTION 1.

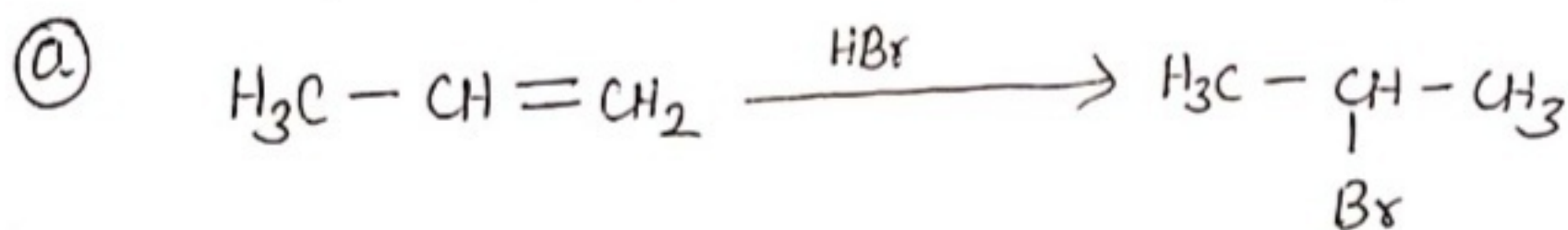
DEGREE-I (HONS.)

By-Dr.Rinky ,Dept.of Chemistry ,22-07-2020

Predict the product giving the mechanism of the following :-

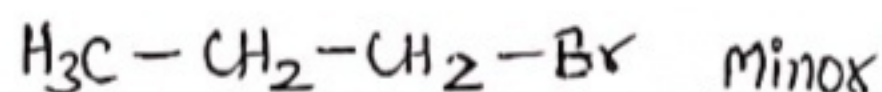


SOLUTION



2-bromopropane (major)

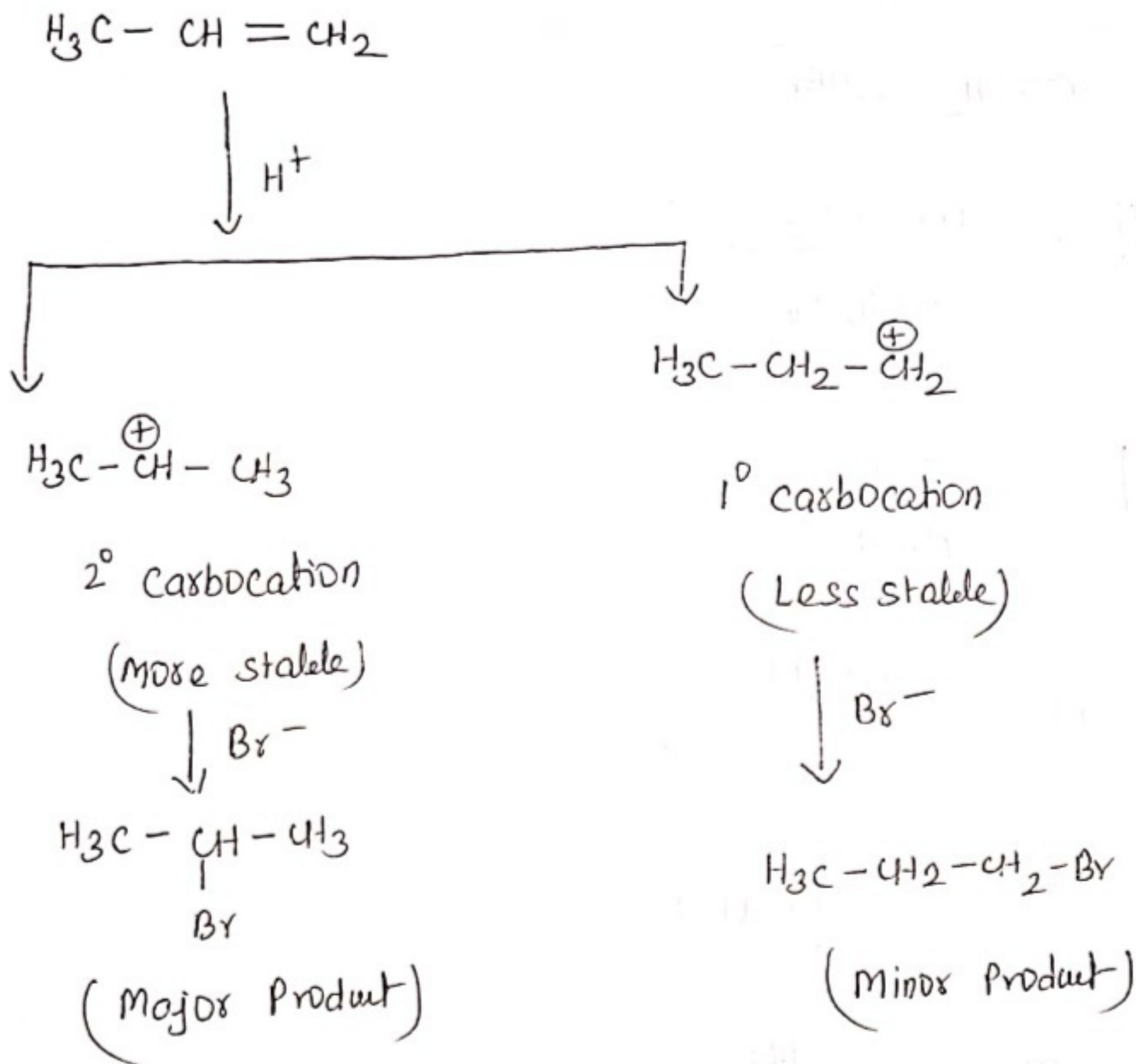
+



* This is an electrophilic addition reaction.

1
Addition to unsymmetrical alkene follow Markovnikov's rule. 2.

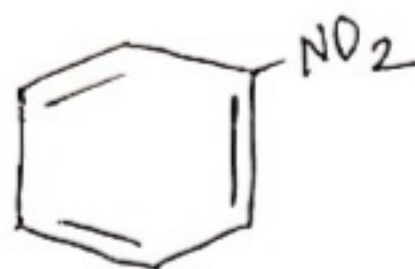
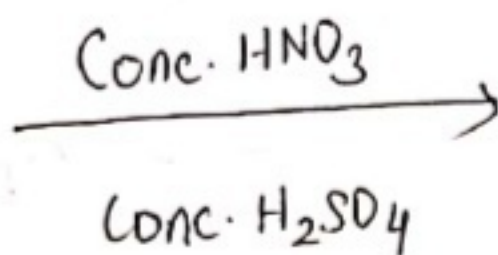
Mechanism



(b)



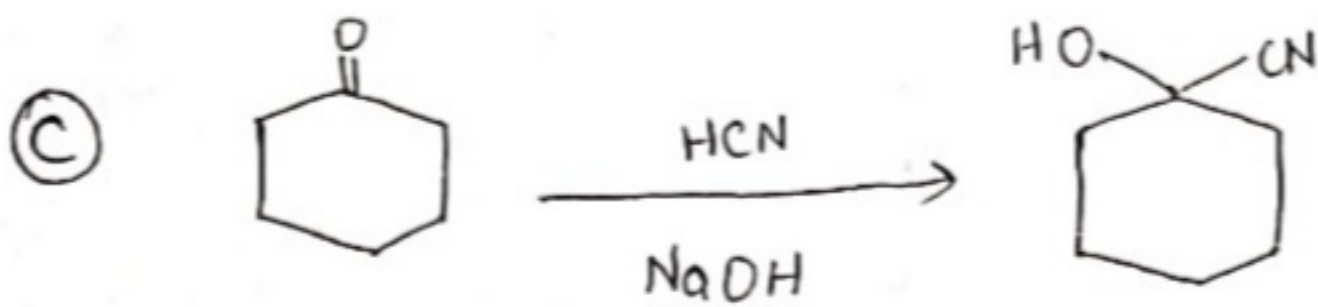
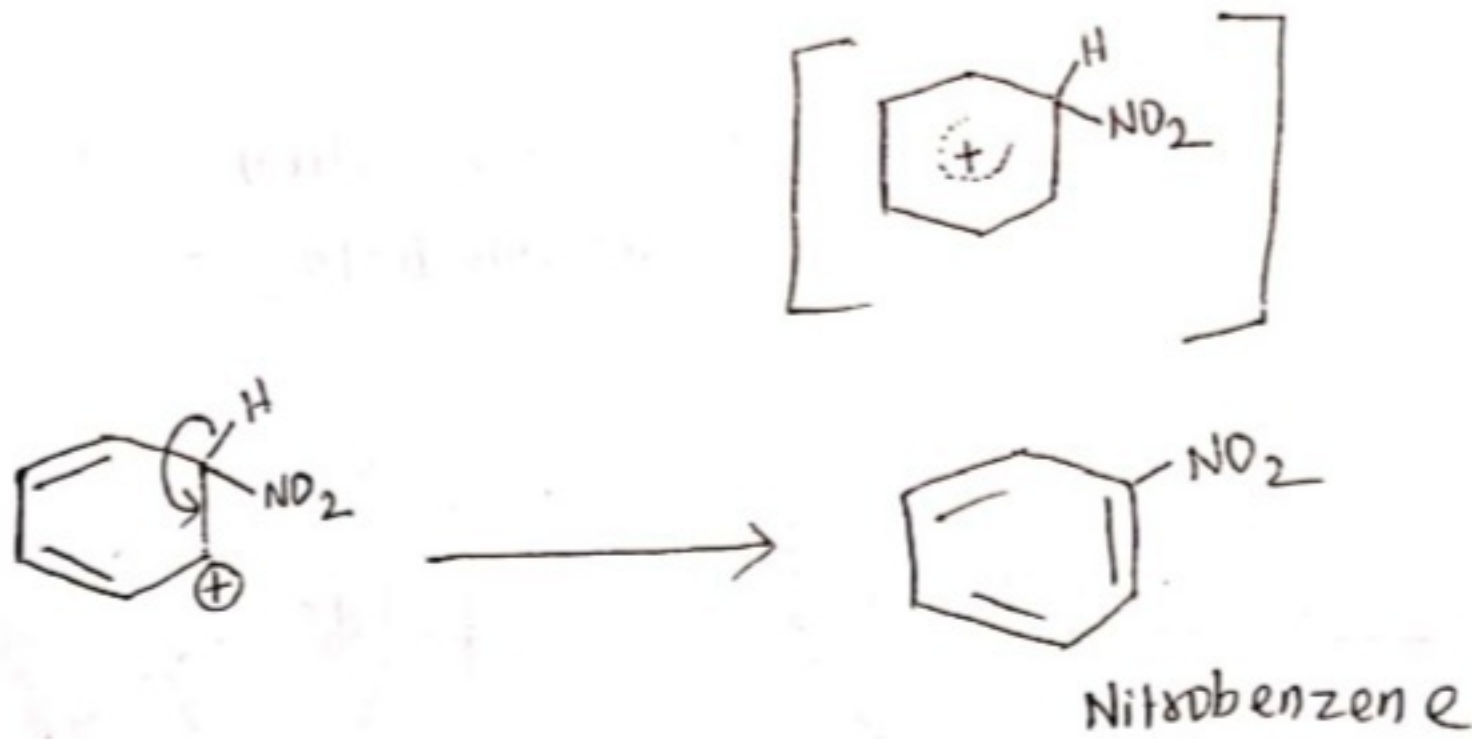
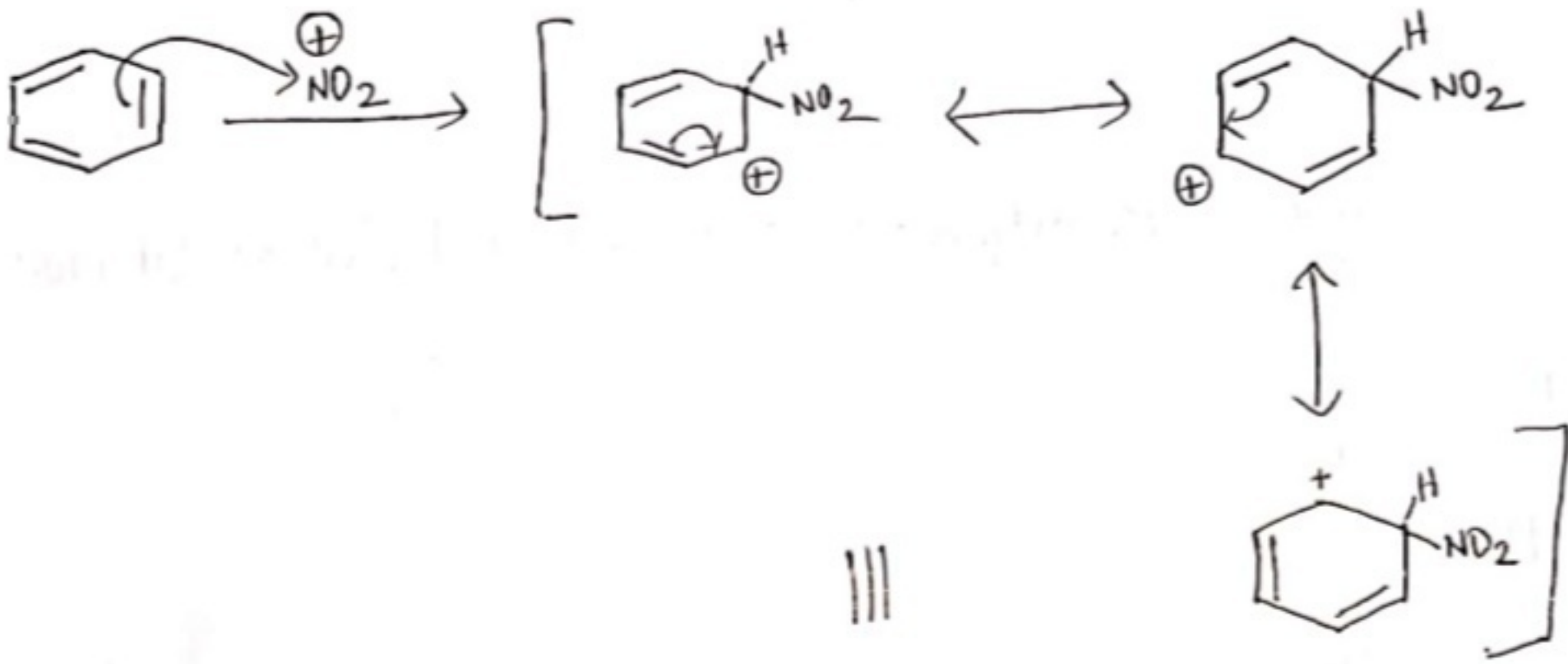
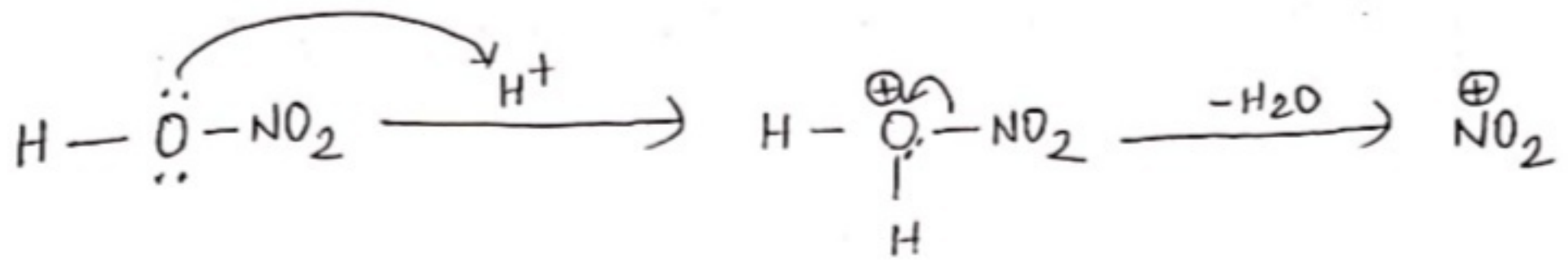
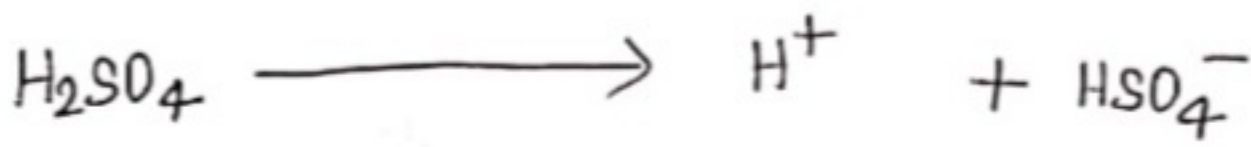
Benzene



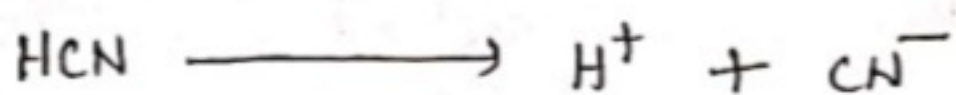
Nitrobenzene

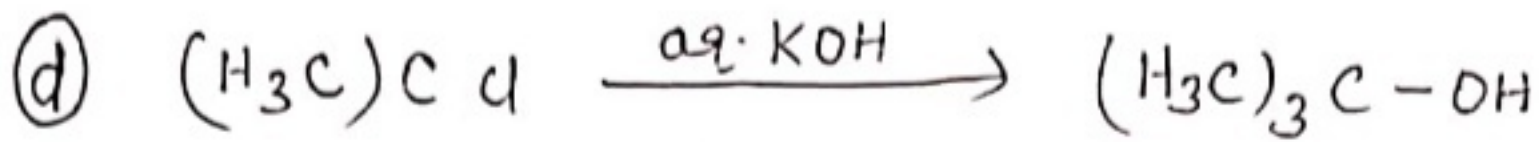
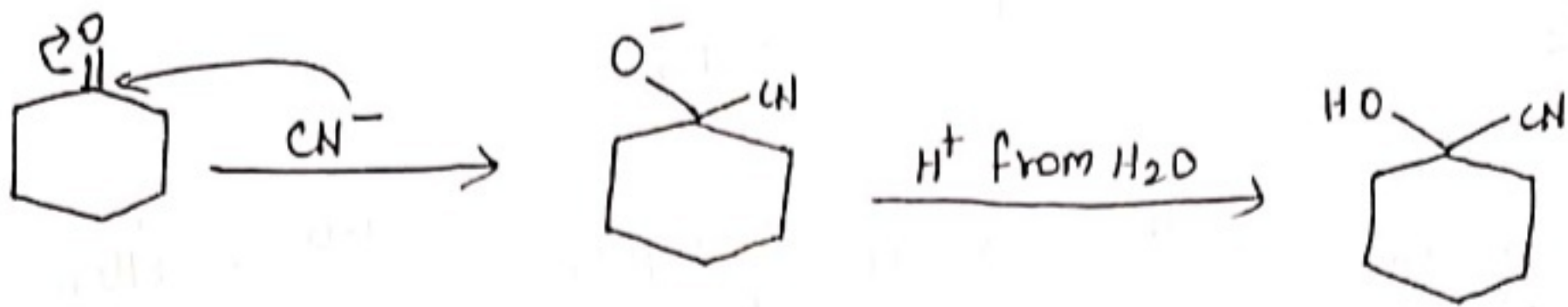
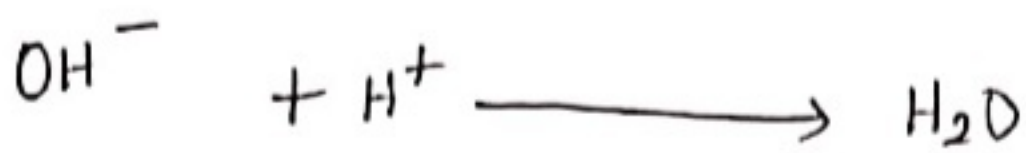
Mechanism

3.



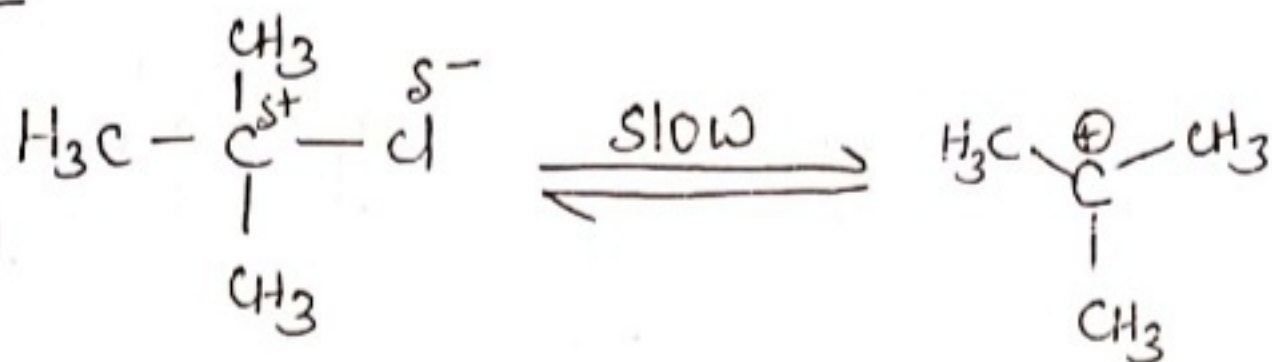
Mechanism





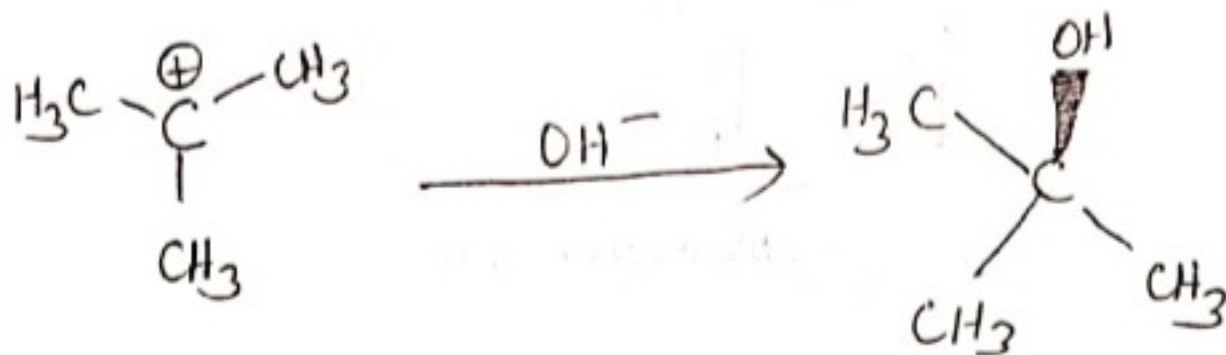
This reaction is Nucleophilic Substitution and follow $\text{S}_{\text{N}}1$ mechanism.

Step: 1

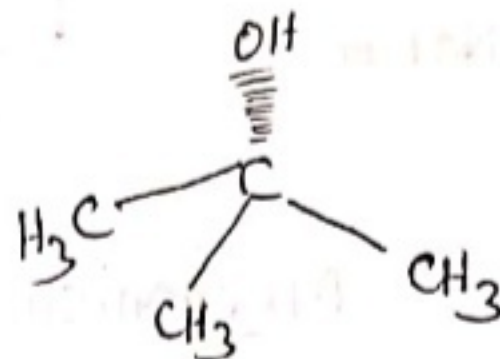


Planar carbocation intermediate

Step: 2



+



In this reaction racemisation of configuration takes place hence, product will be racemic mixture.

Completed..