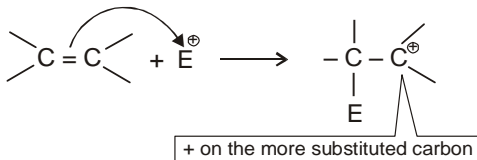


## • Points to remember in Alkene & Alkyne

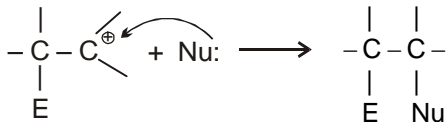
Characteristic reaction of Alkene & Alkyne is Electrophilic addition reaction.

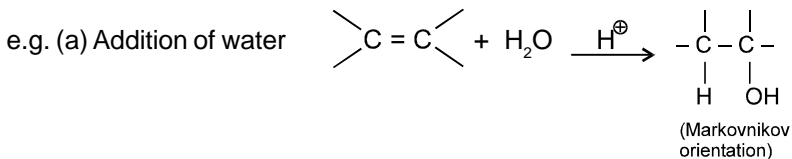
Mechanism

Step 1 : Attack of the electrophile on  $\pi$  bond forms a carbocation.

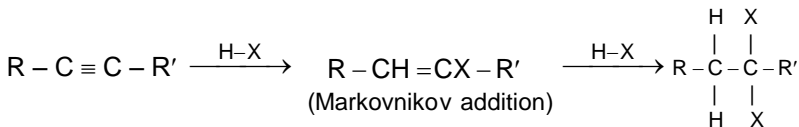


Step 2 : Attack by a nucleophile gives the product of addition.





(b) Addition of hydrogen halides (where HX = HCl, HBr, HI)



Note: When electrophiles are:  $\text{Cl}^+$ ,  $\text{Br}^+$ ,  $\text{I}^+$ ,  $\text{NO}_2^+$  or  $\text{Hg}^{2+}$  then stereochemistry is important and major product is formed by anti addition.

