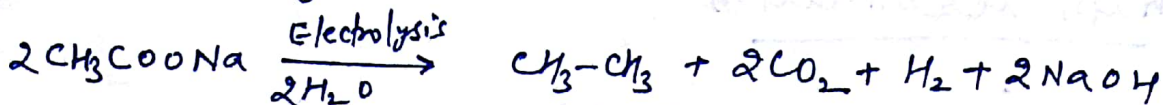


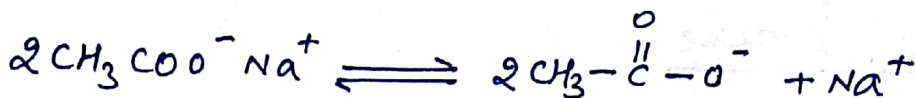
Mechanism of Organic Reaction

(IMPORTANT)

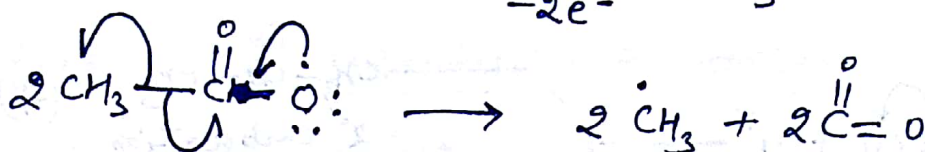
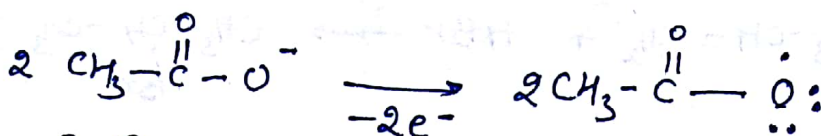
1) Kolbe's Electrolysis



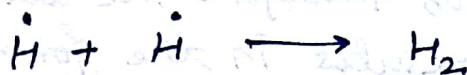
Mechanism



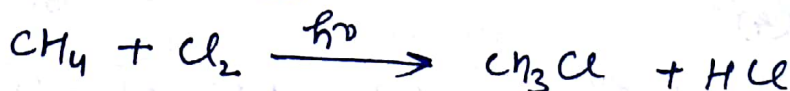
At Anode



At cathode

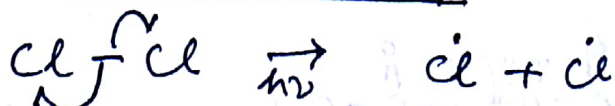


2) Halogenation of Alkane :

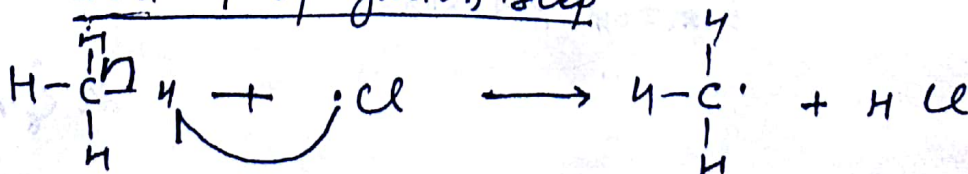


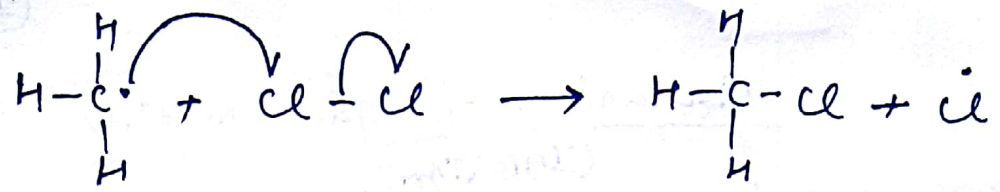
Mechanism

step -1 chain initiation step :

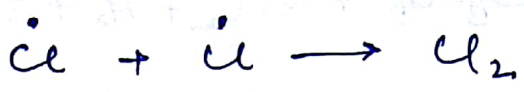


step -2 chain Propagation step

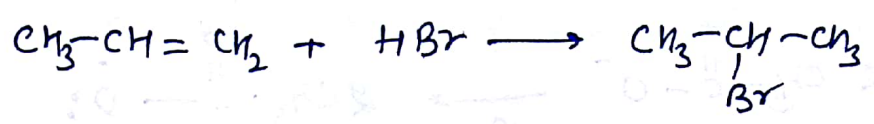




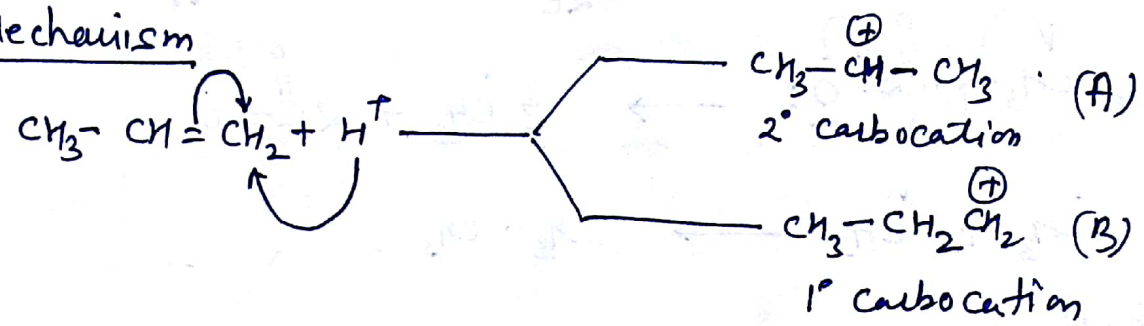
Step-3
Chain Termination



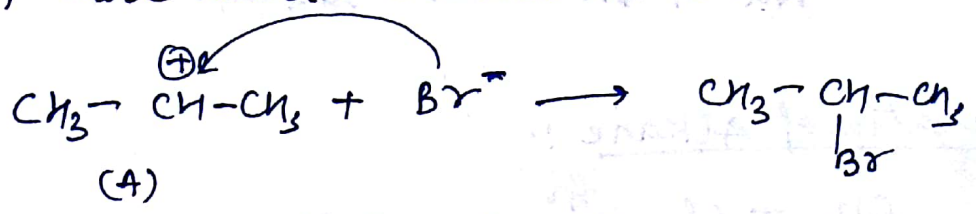
3) Markownikoff's rule



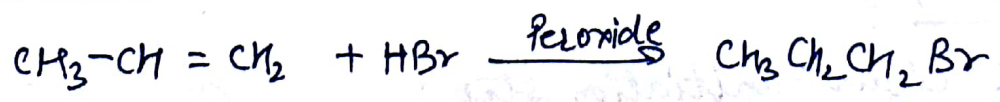
Mechanism



Secondary (2°) carbocation is more stable than primary (1°) carbocation therefore the attack of H⁺ ion on propene results in the formation of more stable carbocation (A).

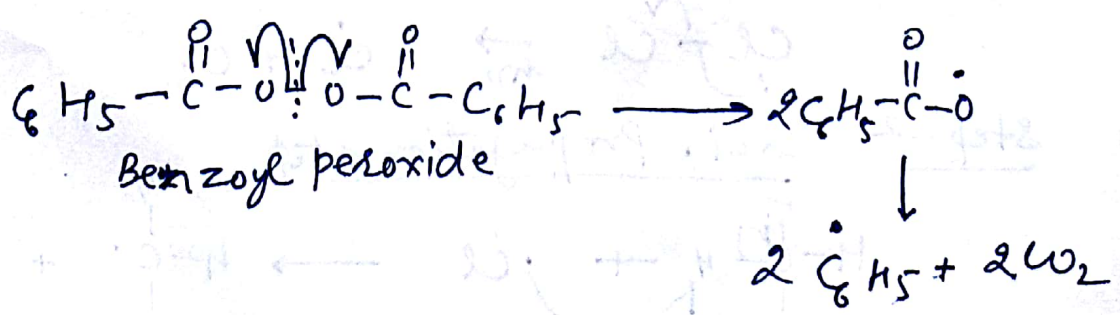


4) Anti Markownikoff's Rule / Peroxide effect / Kharsch effect

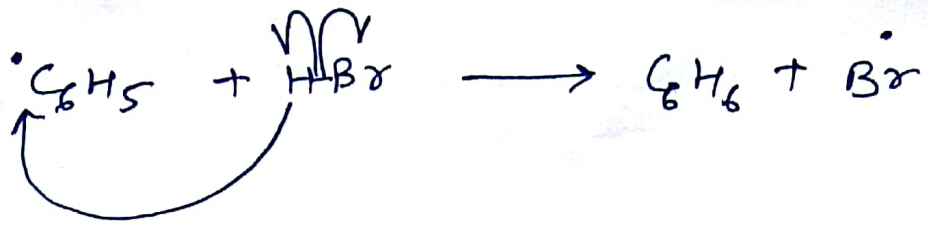


Mechanism

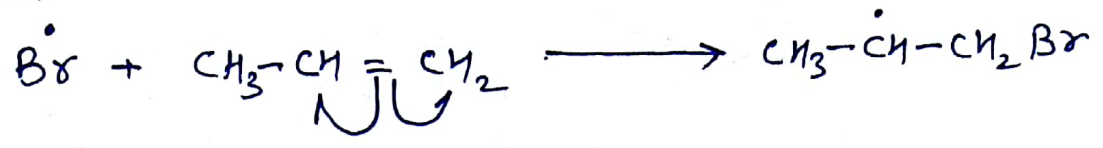
Step-1



step-2



step-3

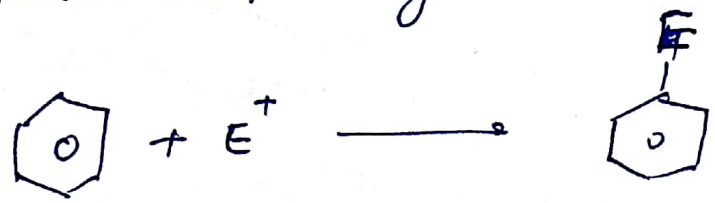


step-4



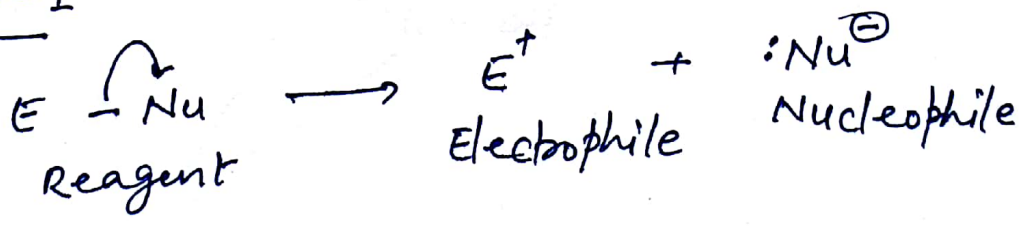
5) Electrophilic substitution of Benzene

same mechanism for halogenation, nitration, sulphonation, Friedel craft alkylation and Friedel craft acylation.

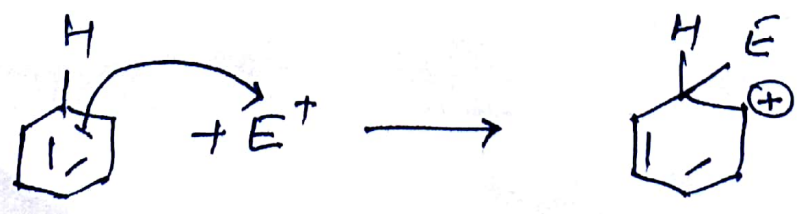


Mechanism

step-1



step-2



step-3

