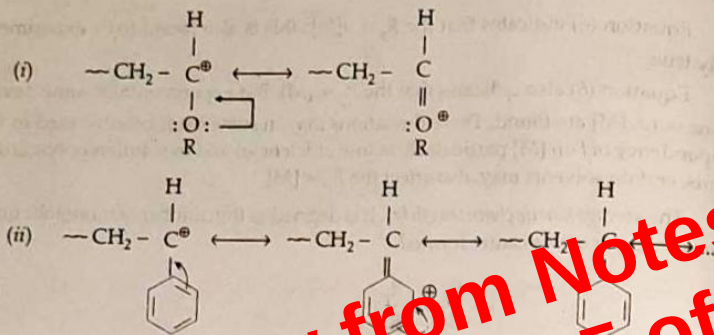
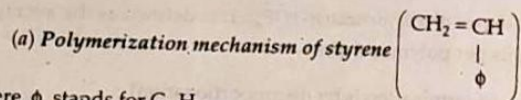
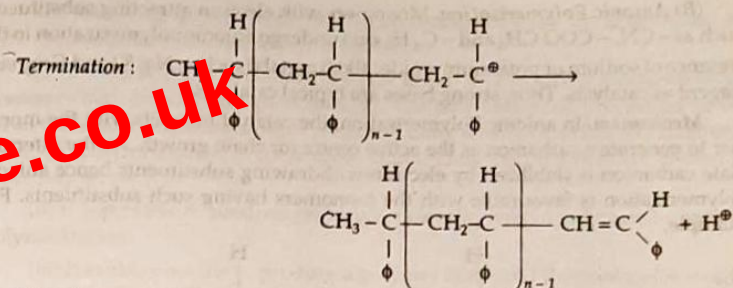
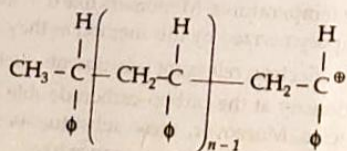
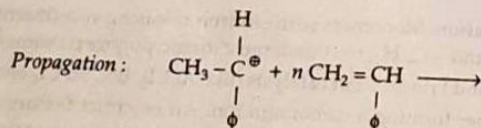
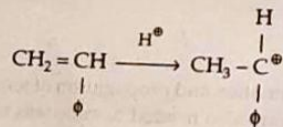
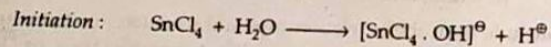




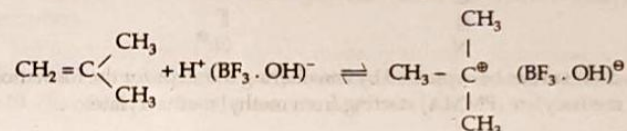
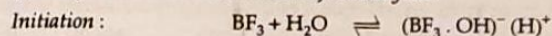
The mechanism of cationic polymerisation can be explained by the polymerisation of styrene using SnCl_4 as catalyst and (b) Isobutylene using BF_3 as catalyst and water as a co-catalyst (or protogen or initiator) since it supplies the proton which ultimately adds to monomer to initiate polymerization. (Note that BF_3 alone cannot start the polymerization).



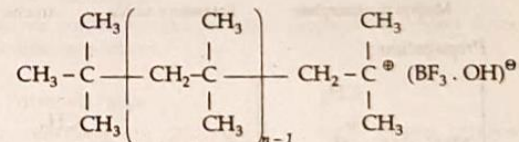
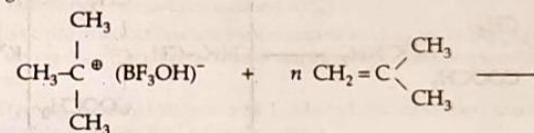
where ϕ stands for C_6H_5



(b) **Polymerization mechanism of isobutylene**



Propagation:



Termination:

