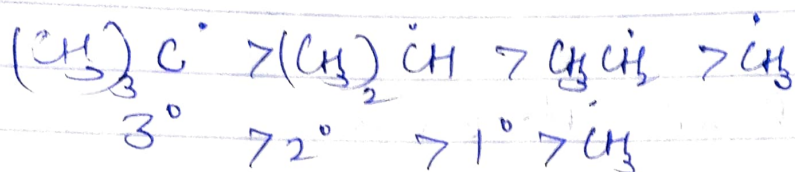
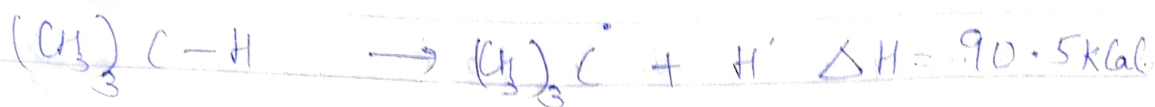
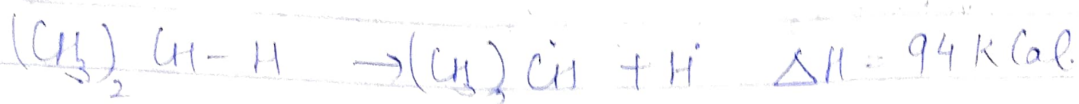
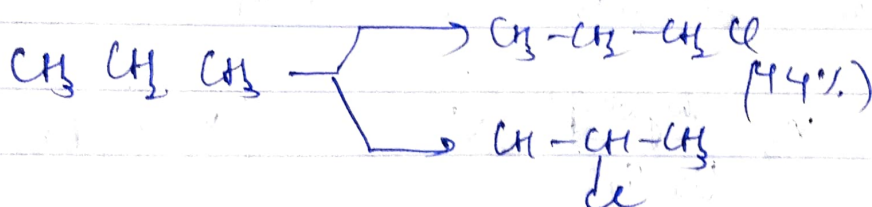


Reactivity and selectivity:



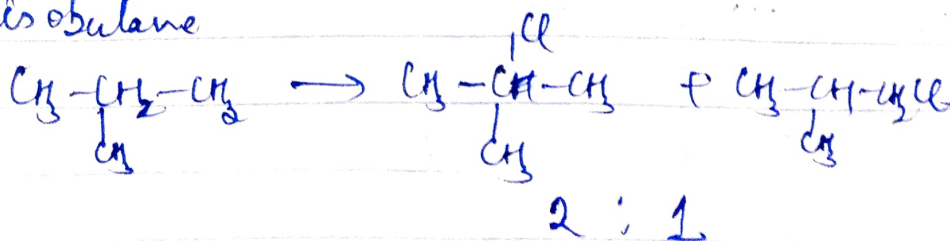
Rate of abstraction of Hydrogen from alkanes
in Halogenation



should be 3:1 but ⁱⁿ real, both products are in same ratio,

bc'coz 2° are more stable

In case of isobutane



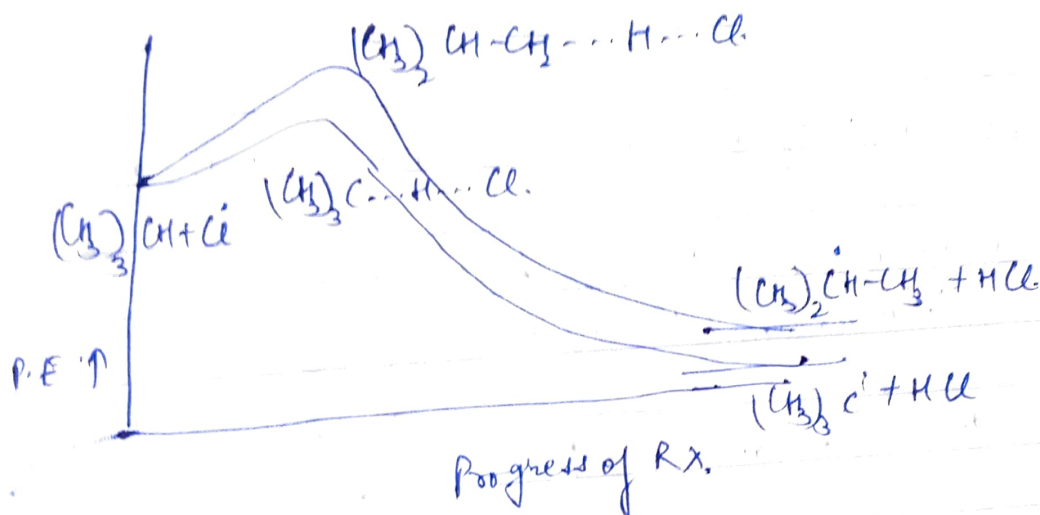
At room temp, substitution of H by Cl/Br

By Chlorine:-

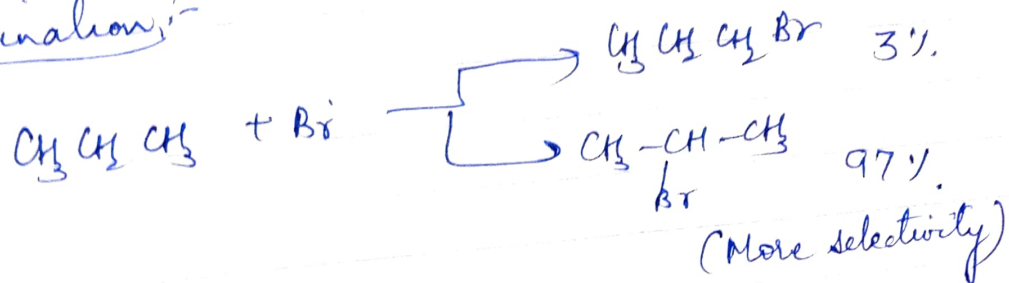
5.0 : 3.8 : 1.0
 (3°H) (2°H) (1°H)

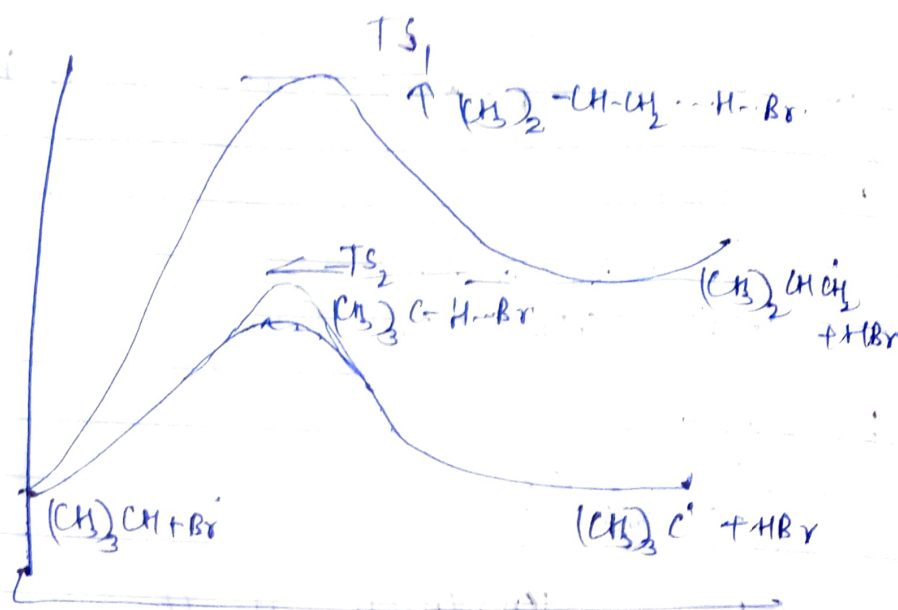
by bromine:-

1600 : 82 : 1
 (3°) (2°) (1°)



Bromination:-





Selectivity of Br atom is more than Cl atom

Bromination (125°C) less reactive

Chlorination (25°C) more reactive

Ex: Isobutane	1%	99%
	1°	3°