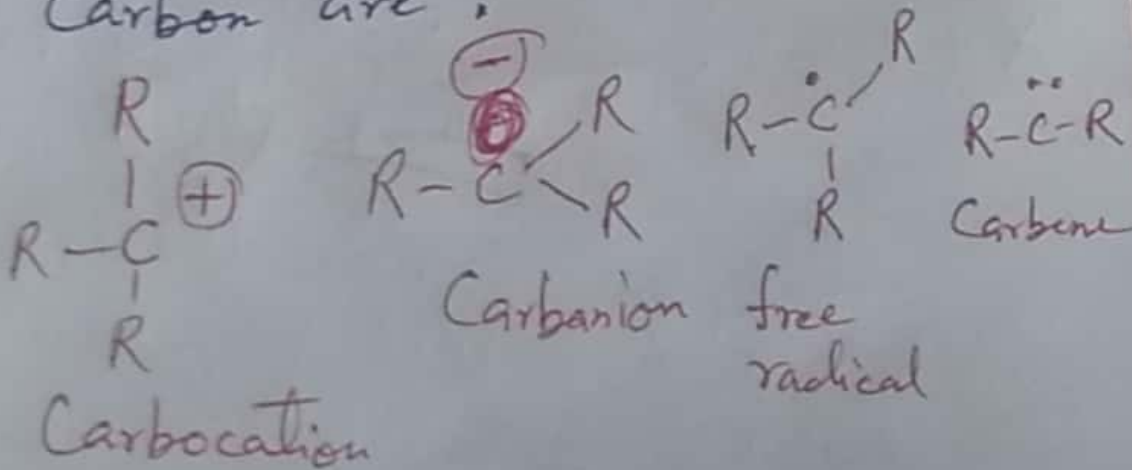


B.Sc. Part I (Hons)
Organic Chemistry.

- Dr. Manju Kumari

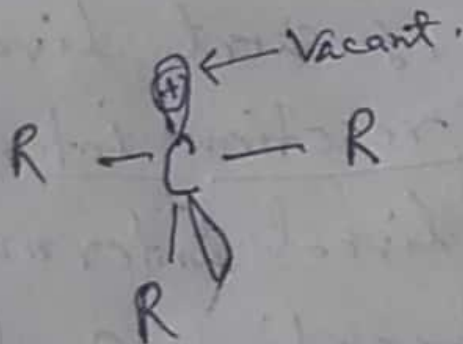
Reaction Intermediates:

Homolytic and Heterolytic bond fission results in the formation of short lived species called reaction intermediates. These short-lived intermediates are very reactive and are quickly converted to more stable molecules. The four most common kinds of reaction intermediates with fewer than four covalent bonds at carbon are:

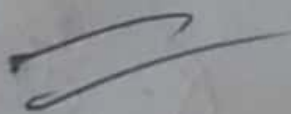


Structure of Carbocations:

The Carbon atom of Carbocation is sp^2 hybridised in which the p -orbital is devoid of any electron.



The three bonding orbitals form three σ bonds, the remaining p -orbital is vacant.



3.

Stability of Carbocations : —

Some Carbocations are listed below in order of their decreasing relative stability (in solution) :

