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B.Sc Part III

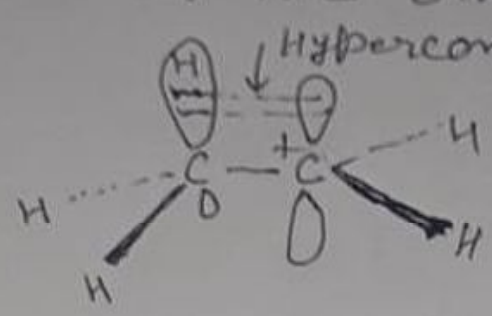
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Hyperconjugation:-

Hyperconjugation effect is a permanent effect in which localization of σ electron of C-H bond of an alkyl group directly attached to an atom of the unsaturated system.



The three C-H bonds of the methyl group can align in the plane of the empty p orbital and the electrons constituting the C-H bond in a plane with this p orbital are delocalized into the empty orbital.

Hyperconjugation stabilizes the carbocation as it helps in the dispersal of positive charges. i.e. greater the number of alkyl groups attached to a positively charged carbon atom, greater is the hyperconjugation interaction and stabilization of the carbocation.

