



Basics:-Sara khel electron density

Electron density & 1 Size

Glectron - CO < NO < OO < to

Glectron & (-ve) charge & 1 density

6.8: - Electron: - A3 > A > A > A > A > A2+

Inductive Ebbect

- · Operate to sigma bond.
- · Partial charge development.
- · Distance dependent ebbect.
- · Can be neglected offer grd 'c'-atom.
- >Power of Inductive edect
- +I Power: Le- donating grap)
- CH2 >-NH>-0>- C00>3°R>2°R>
- · T > D > -H] → No inductive (zero)
- => I & sout: (& Miffy quaming & ab)

 $-Nf_3$ $\rightarrow -NR_3$ $\rightarrow -SR_2$

Na barban Na ritik Shahrukh

-NAZ >-NOZ > SOZH >-CN>
Na hiwesh Na ompori Salman cyna

ali ki car me father collector Beta

-I 7 - OR 7 - OH > - CECH>

Insepector aux Alcohol ki mummy Alkyne

-NH208NR2 >-Benz > Ene > H nahi hay Benz ene hay

Applications

() To compare Acidic strength of Aliphatic Carboxylic Acid (openchain without cycloalkane)

-> op point :-

1 A. Sa[H+] aka a ph a pka

8000 Acid More 2 table

A.Sd-Id+T -I stabilizes anion +I destabilizes anion

Distance Number POWER DO NOT PLAY

2) To compare A.S ob Alcohole

A. Sa-Id 1 - Same of carborate

3) To compare Basic strength of Amines

In gas phase: - 30>20>10

In aquous medium: - R=me (2°>1°>3°)

R=Et (2°>3°>1°)

onwalds -> R = Prop, but ... etc L. Always [3°>2°>1°]

According to +I ebbect: -[3°>2°>3°]
According to +I ebbect: -[3°>2°>1°]

(4) To compare stability of carbocations

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5 To compare stability at carboanions

$$\begin{array}{c|c} \hline -1 \leftarrow C \rightarrow \hline \\ \downarrow \\ \hline \\ -T \end{array}$$
 Stability $\alpha - I \propto \frac{1}{+I}$