

Nishant Jindal
Arrangement in Order of Acidic Strength



$(4 > 3 > 2 > 1)$

most stable

(*) P.T

(*) P.T

(*) in case of strain

(*) ————— diff. hybridisation

* Acidic strength & Stability of C-Bak

\propto EWG

$\boxed{\begin{matrix} \text{En} \\ \text{size} \end{matrix}}$

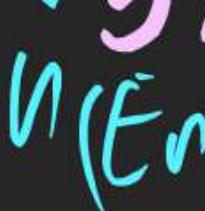
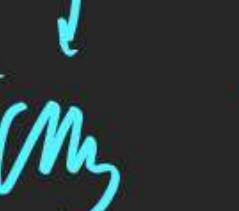
$\boxed{\text{Strain}}$

$\boxed{\% \text{S}}$



$(2 > 1)$ (size)

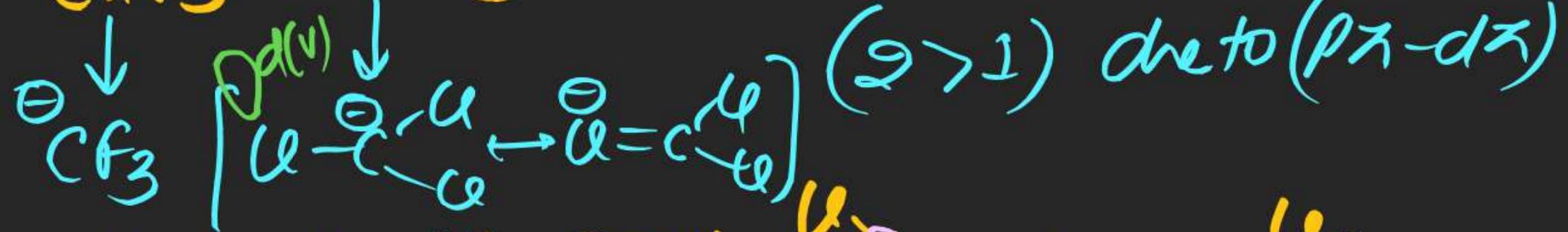
~~(28)~~



$3 > 4 > 2 > 1$

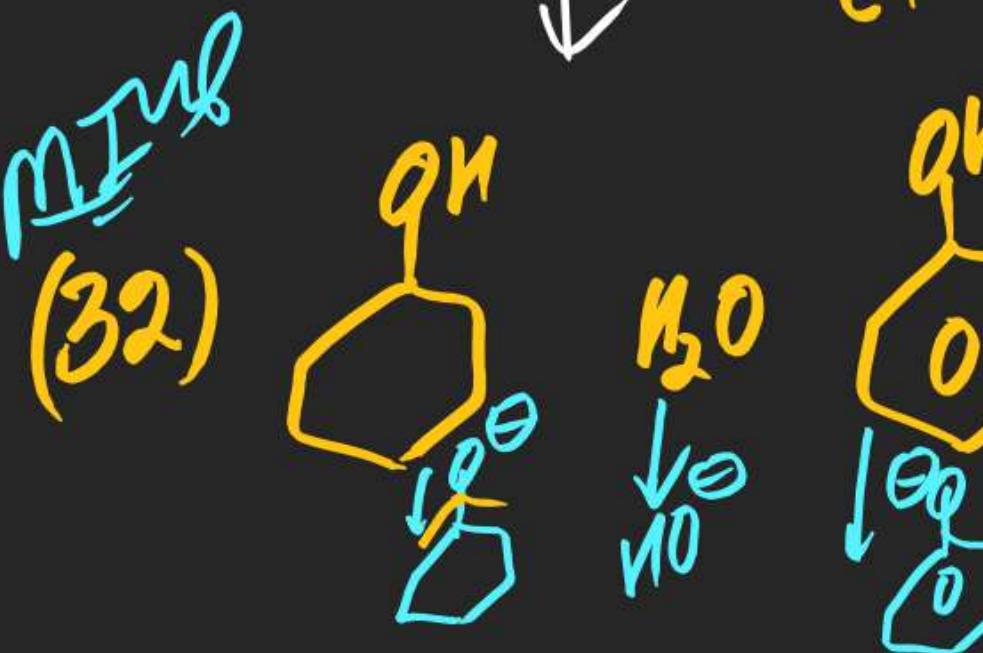


$(3 > 2 > 1)$ (due to % s orbital)

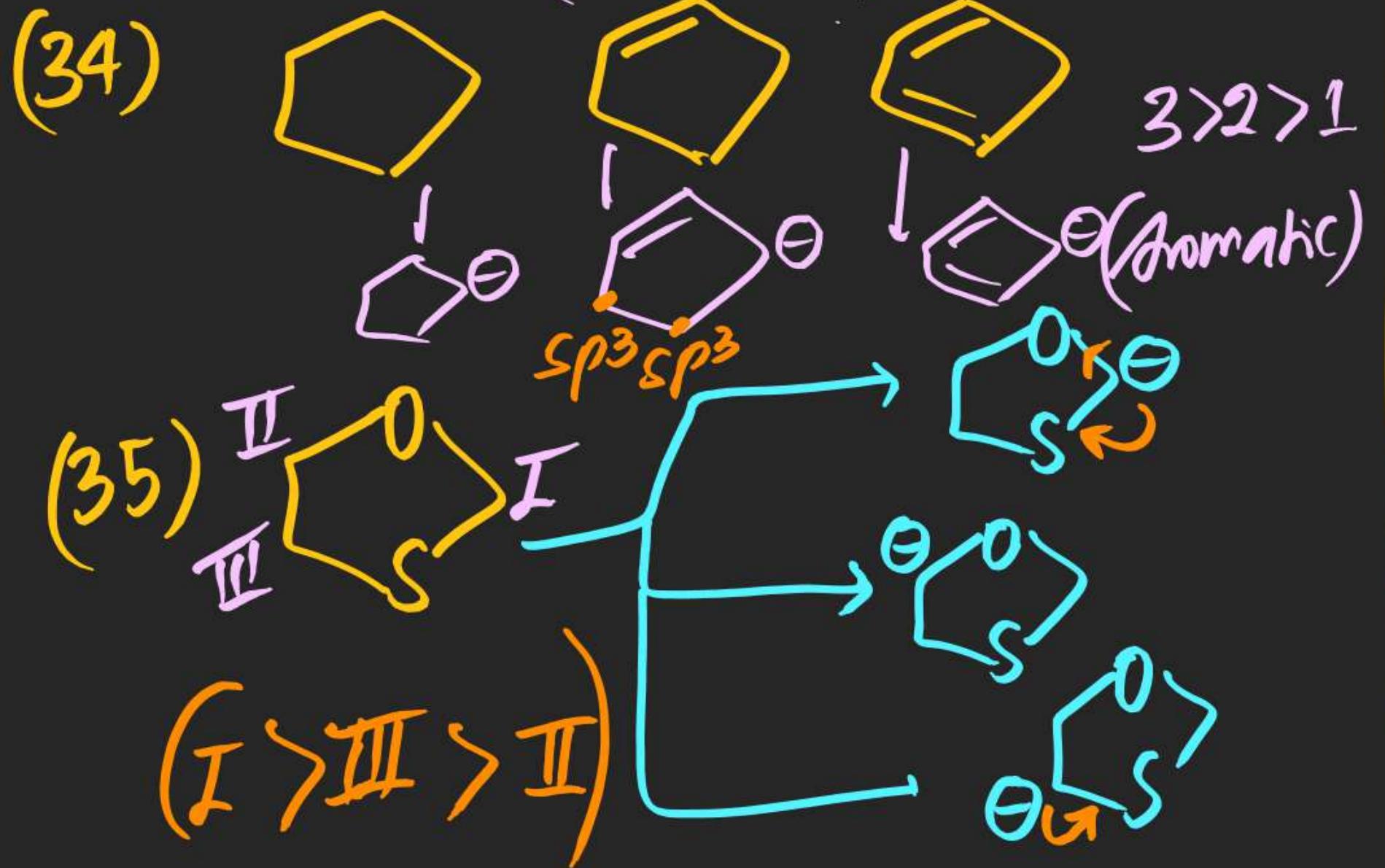
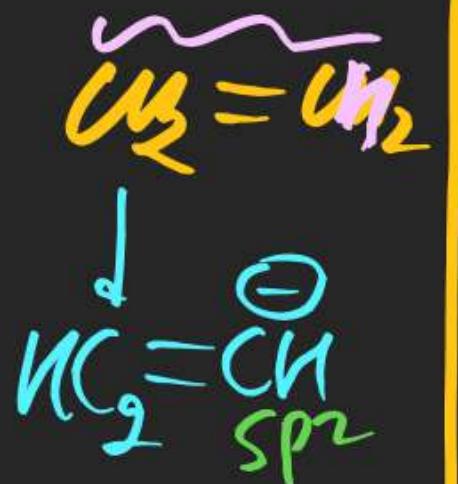
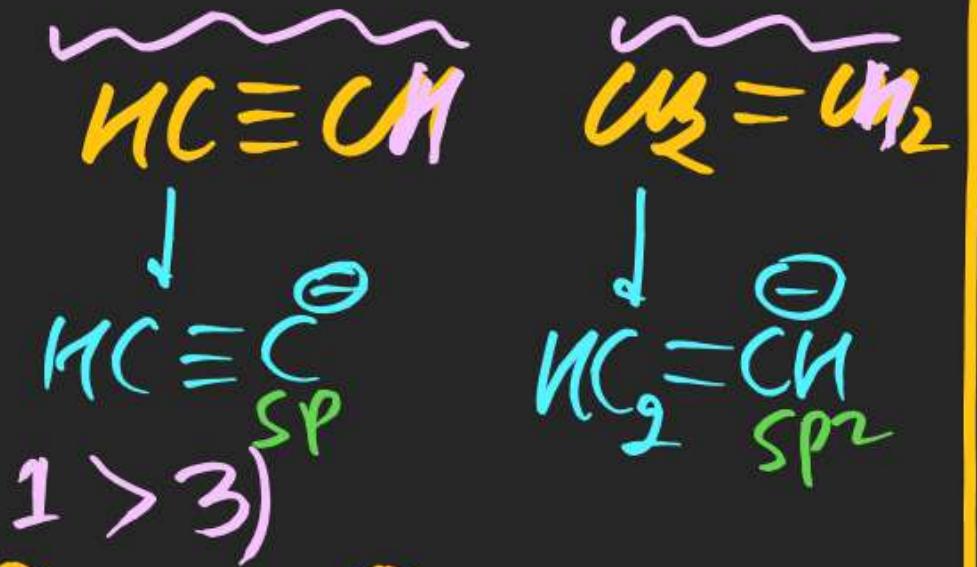
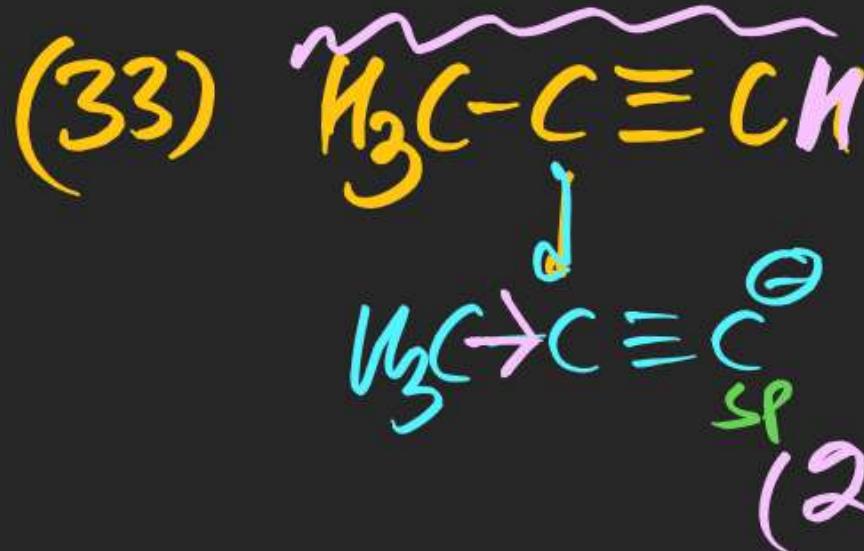


$4 > 3 > 2 > 1$

(due to higher no. of
-I groups)



$(3 > 2 > 1)$

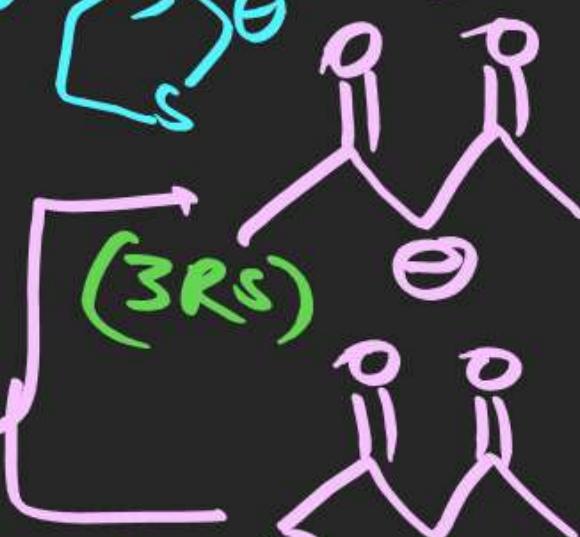
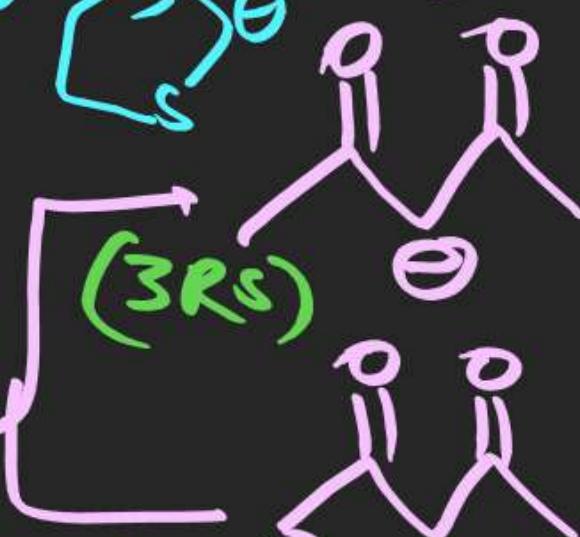
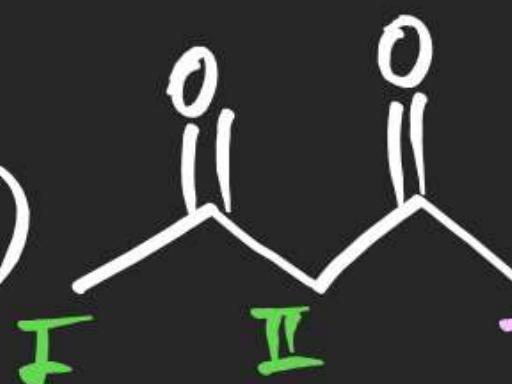
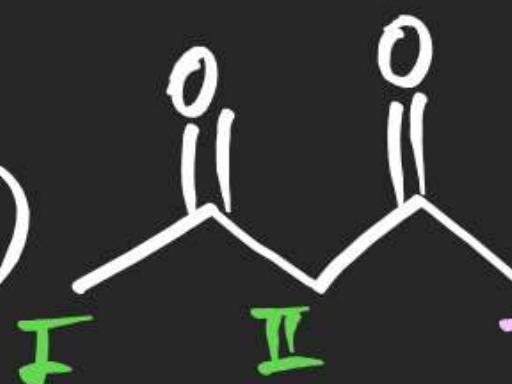
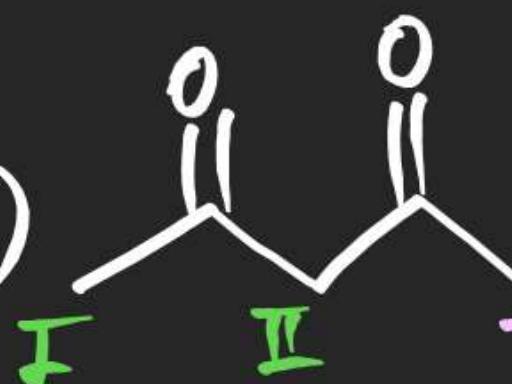


(36)



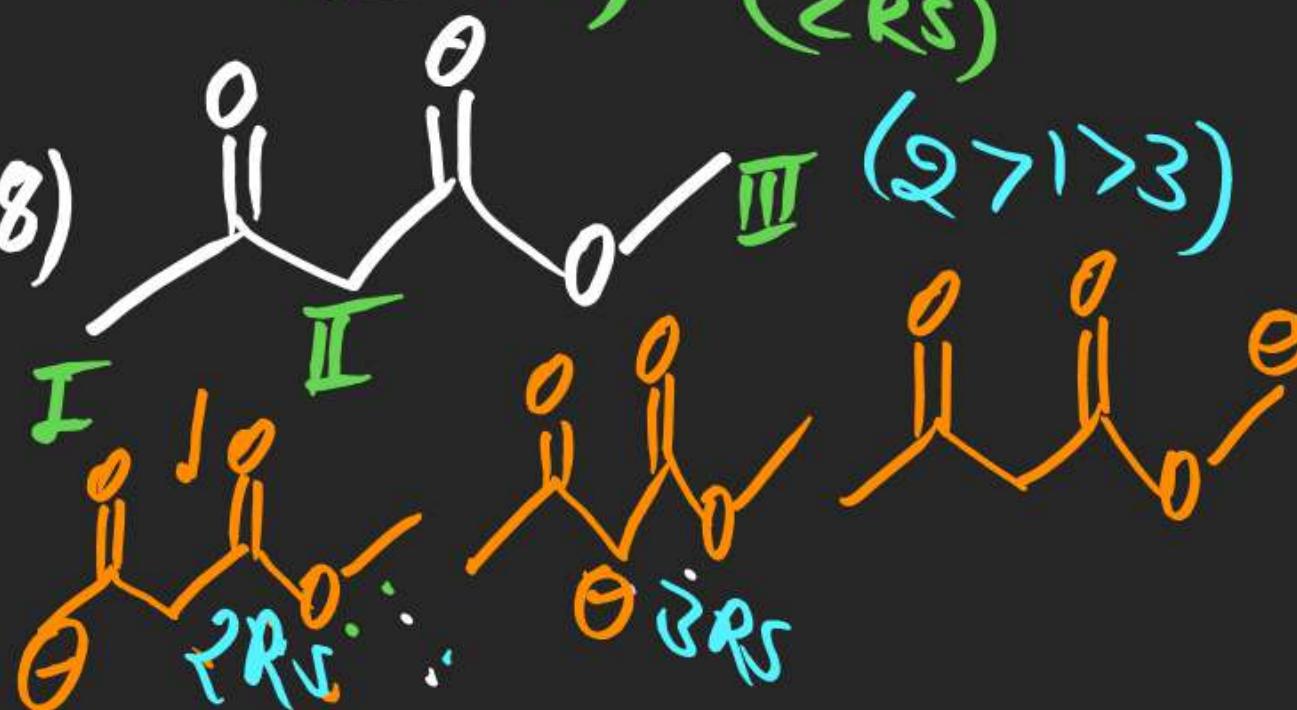
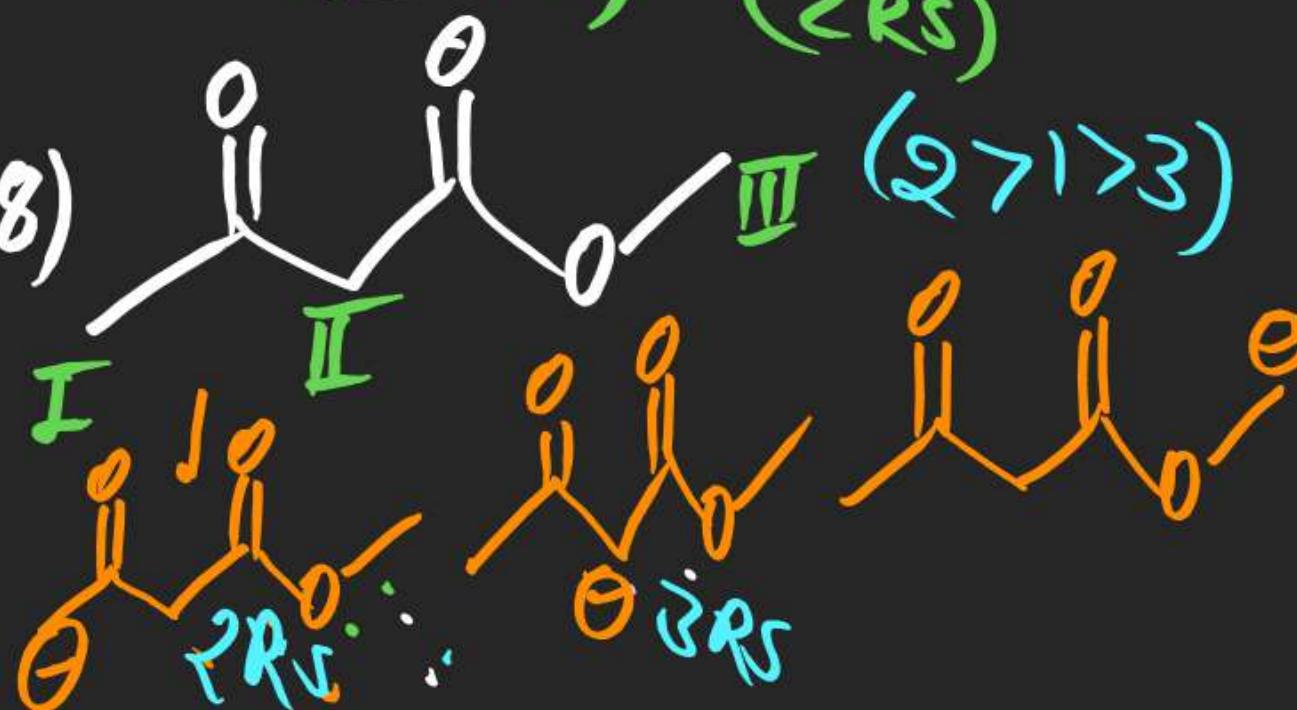
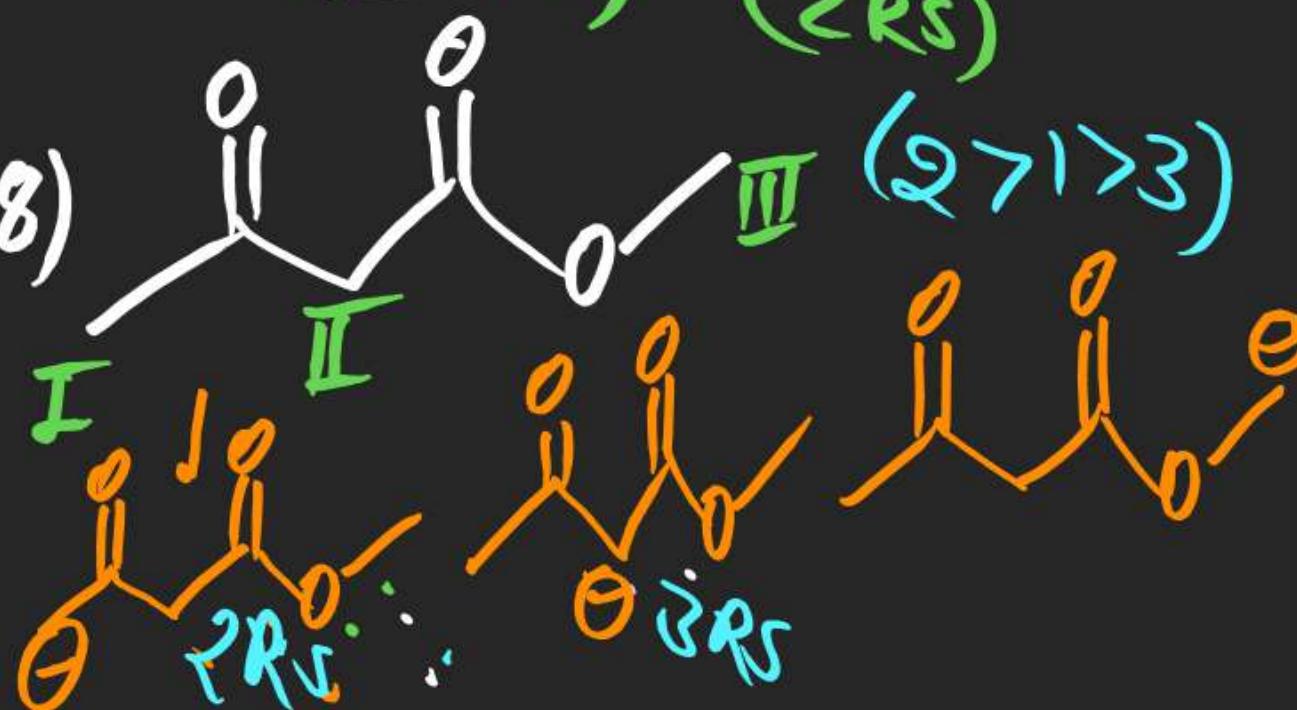
(37) (2727)
(P7dA)

(37)



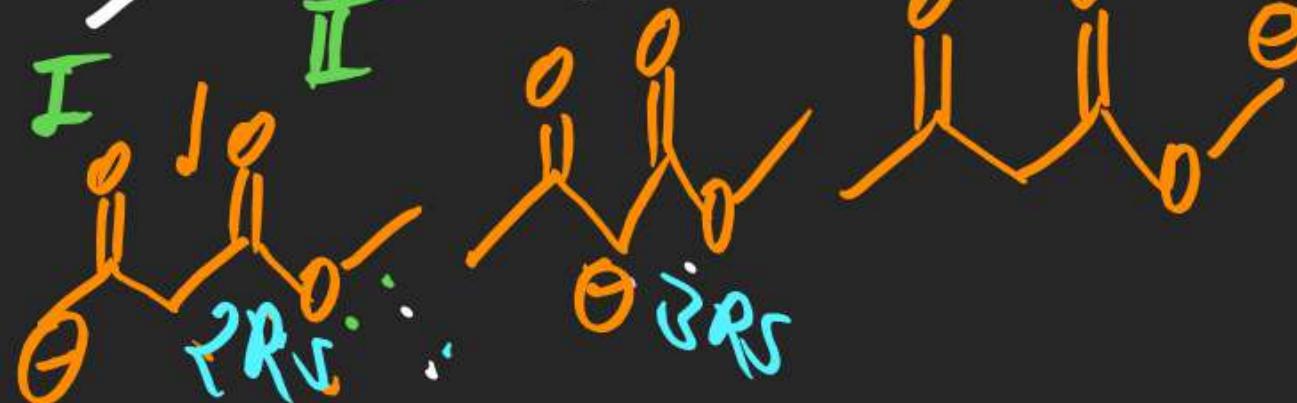
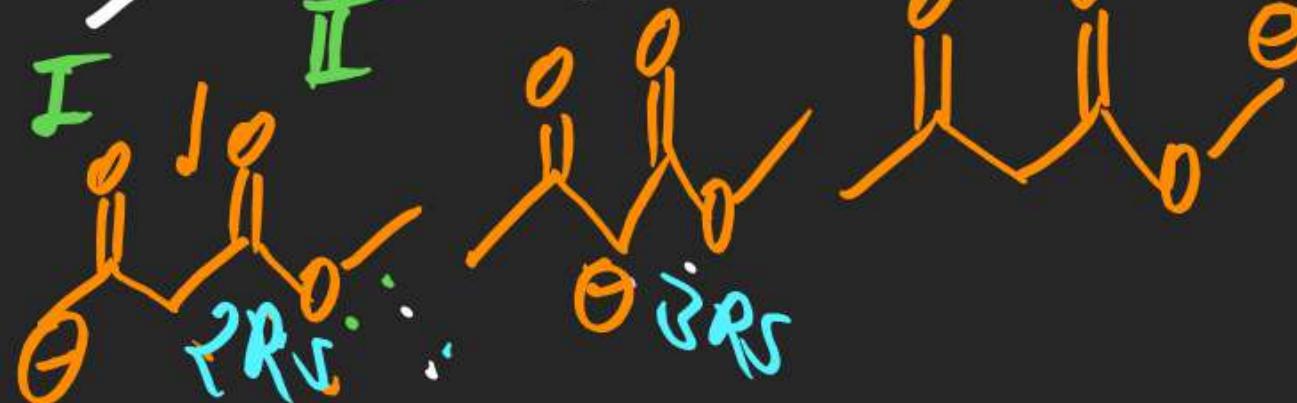
(3RS)

(38)

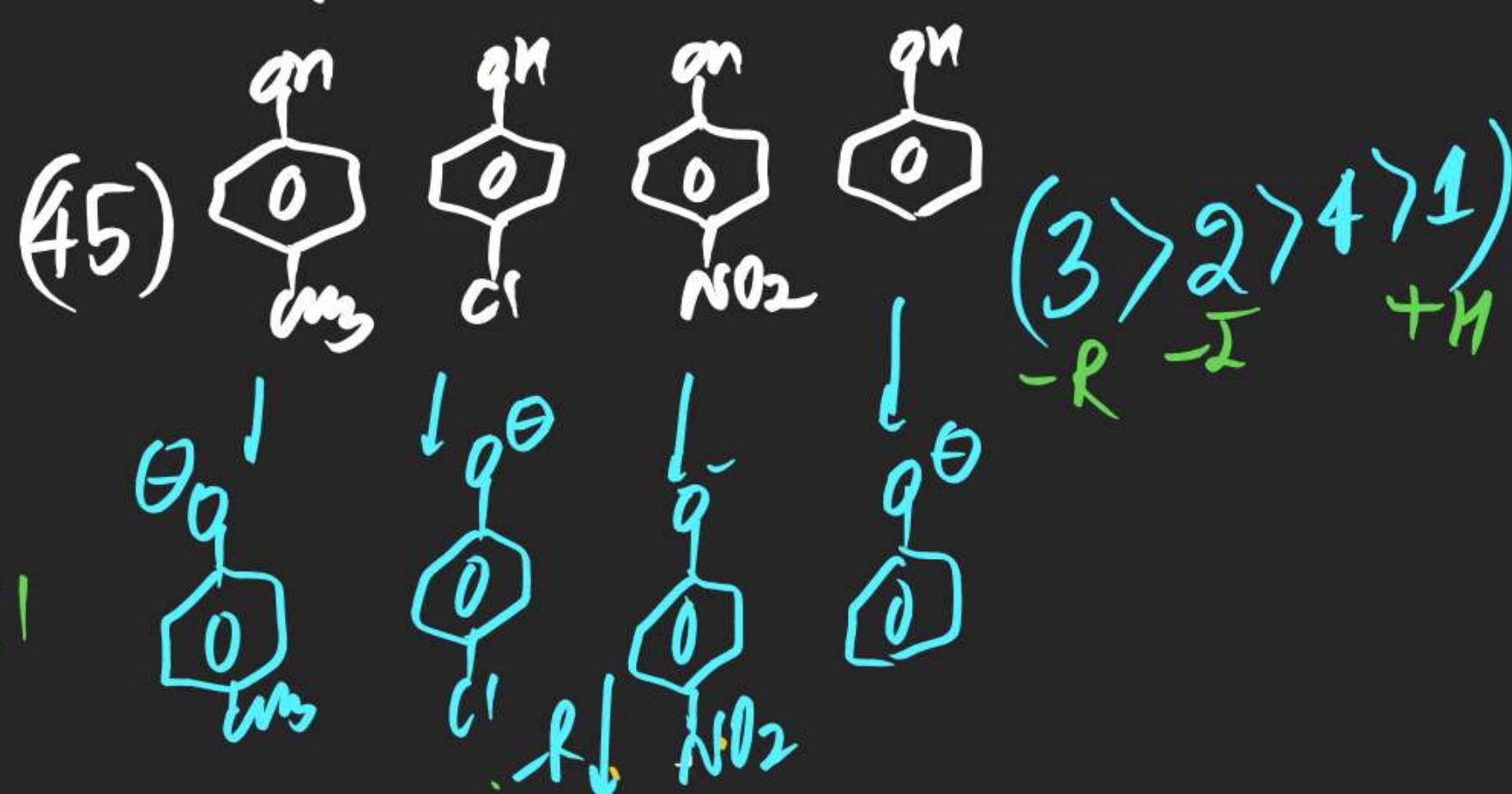
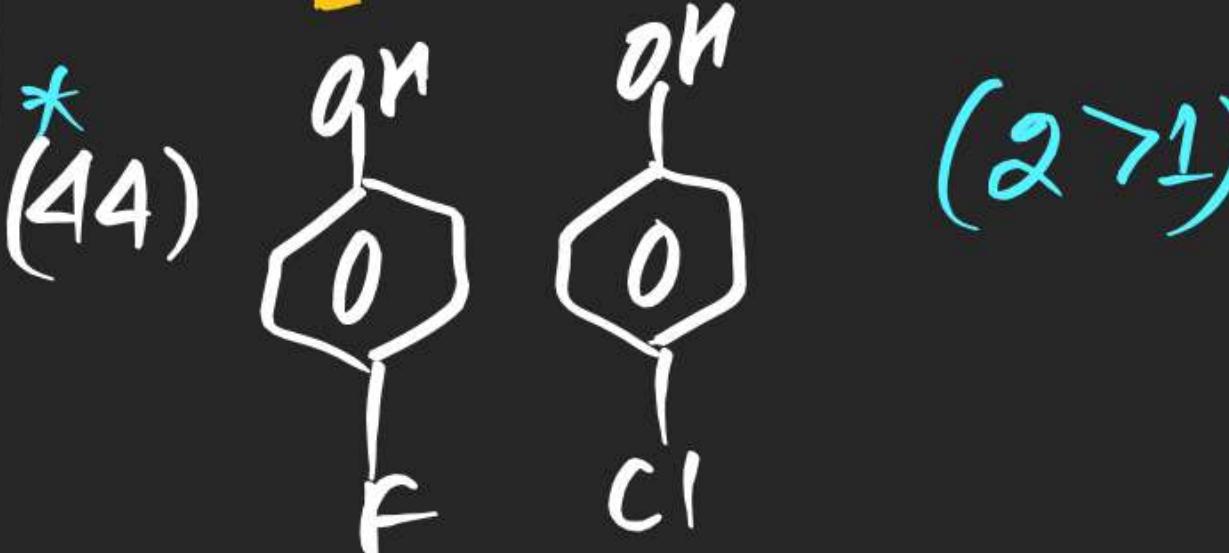
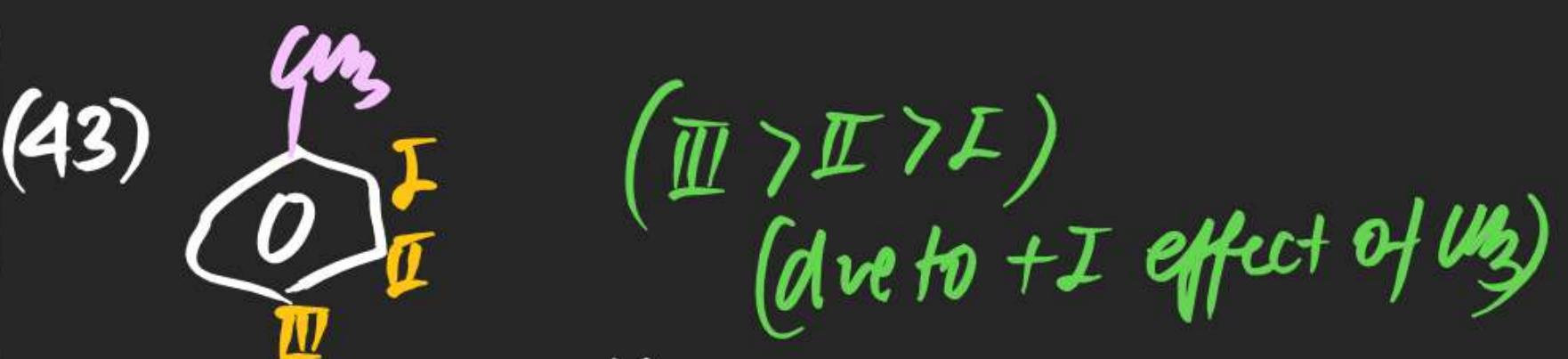
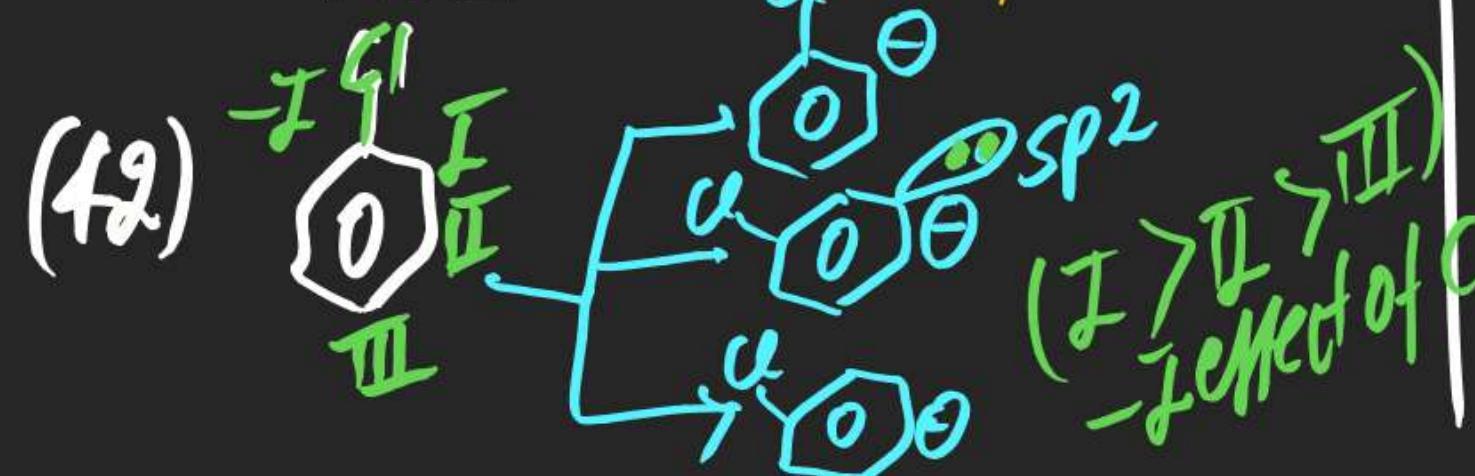
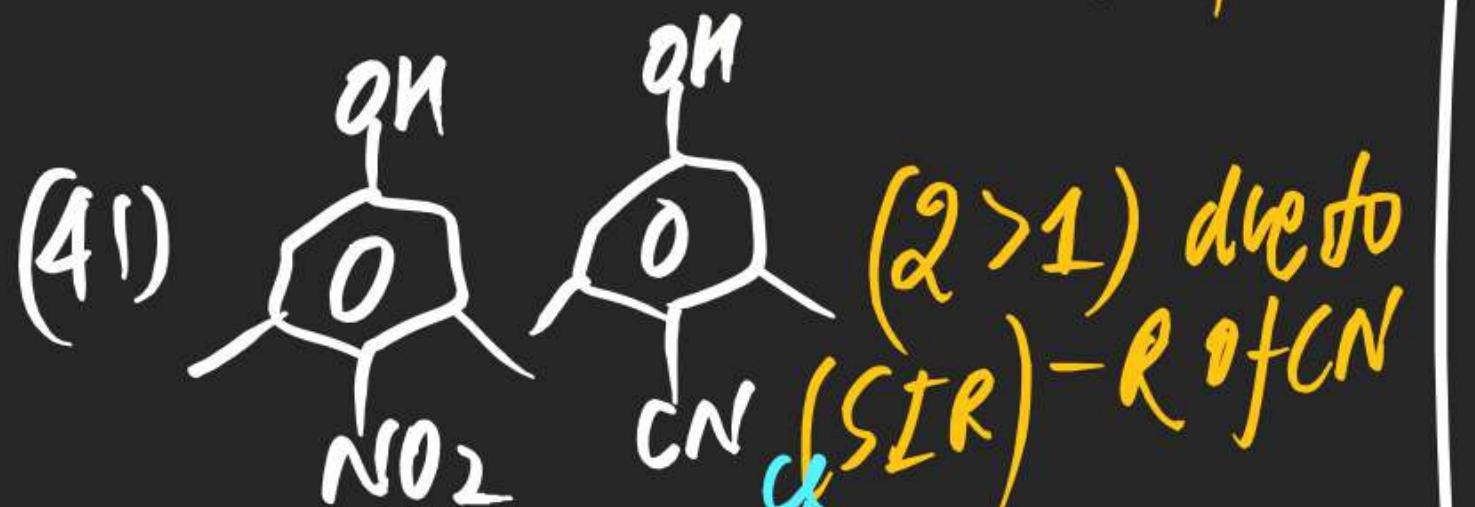
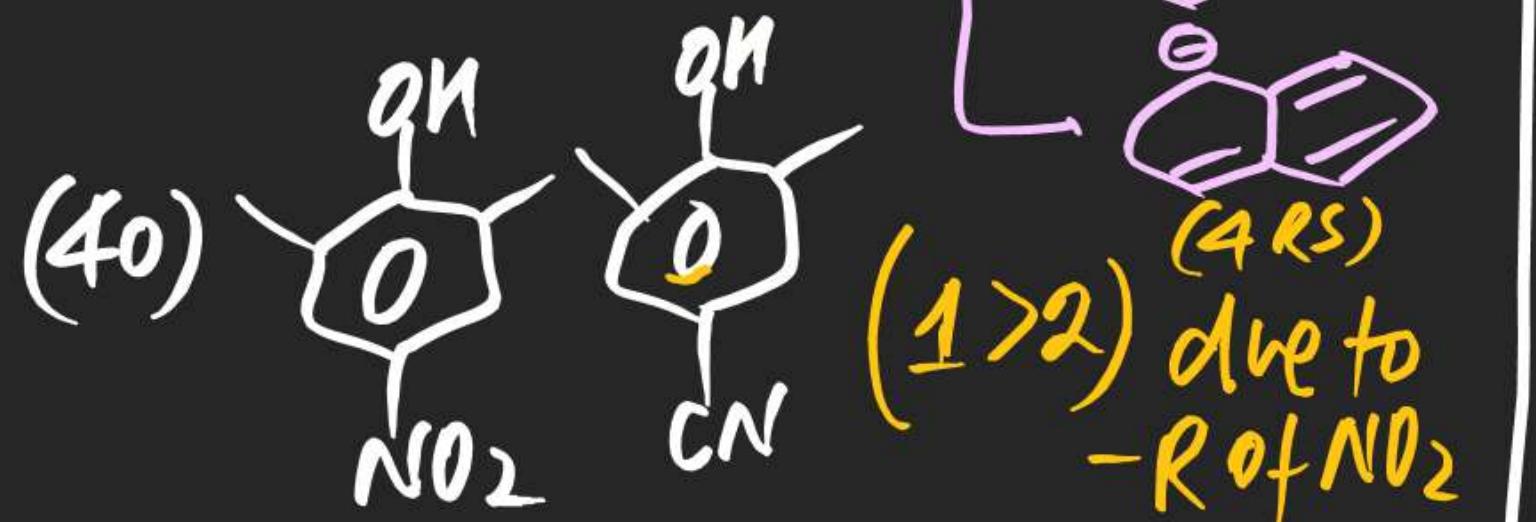
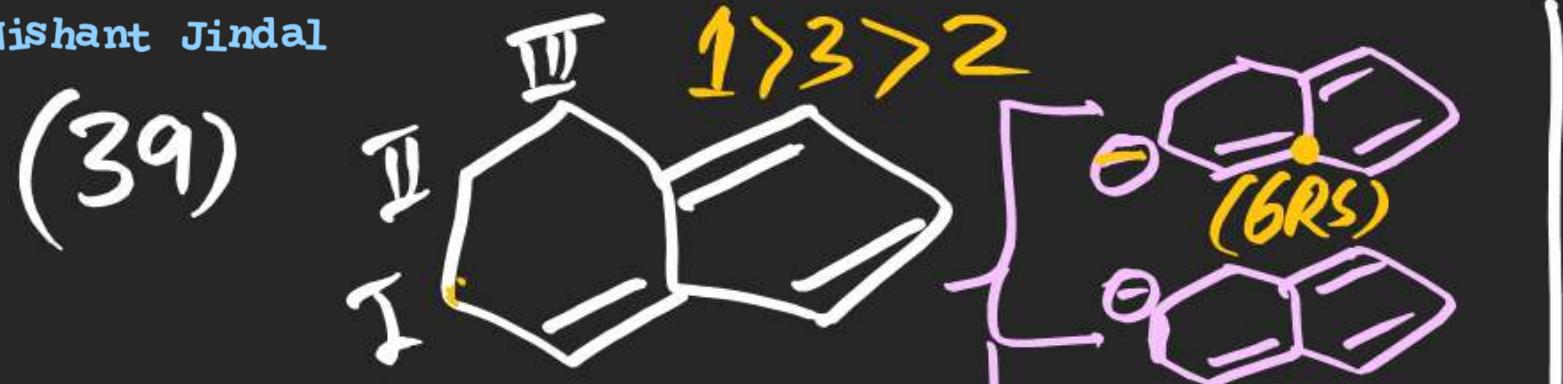


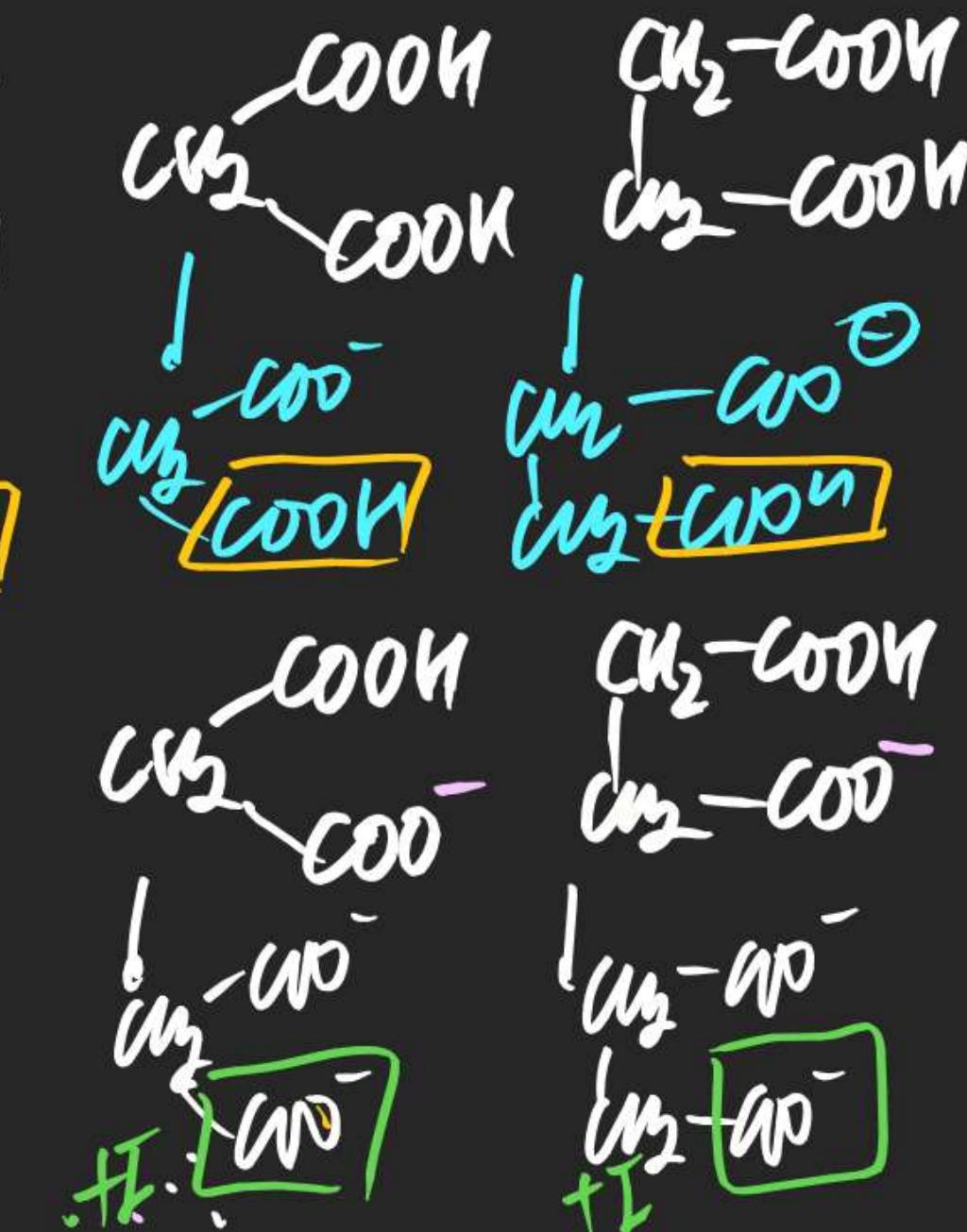
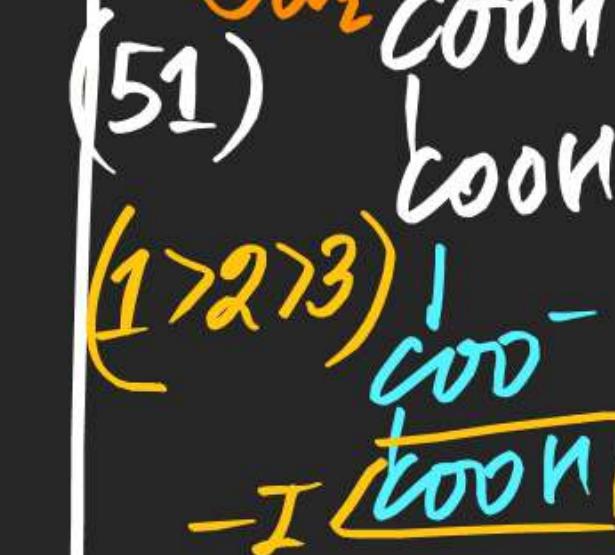
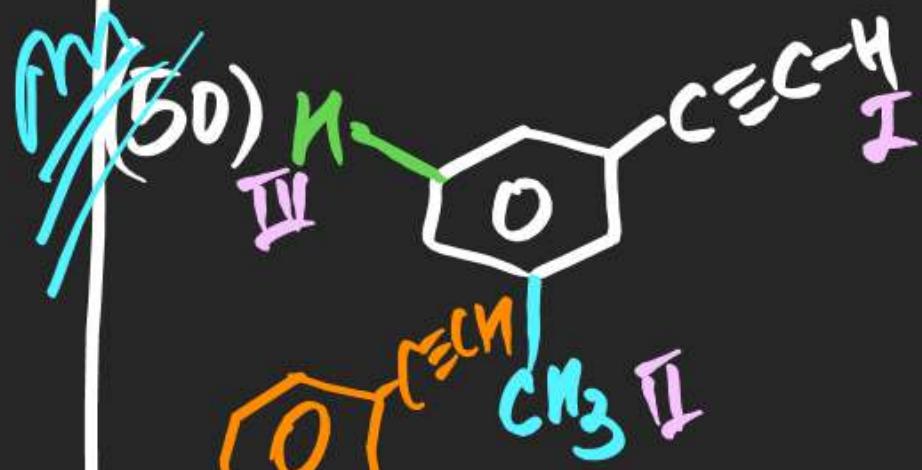
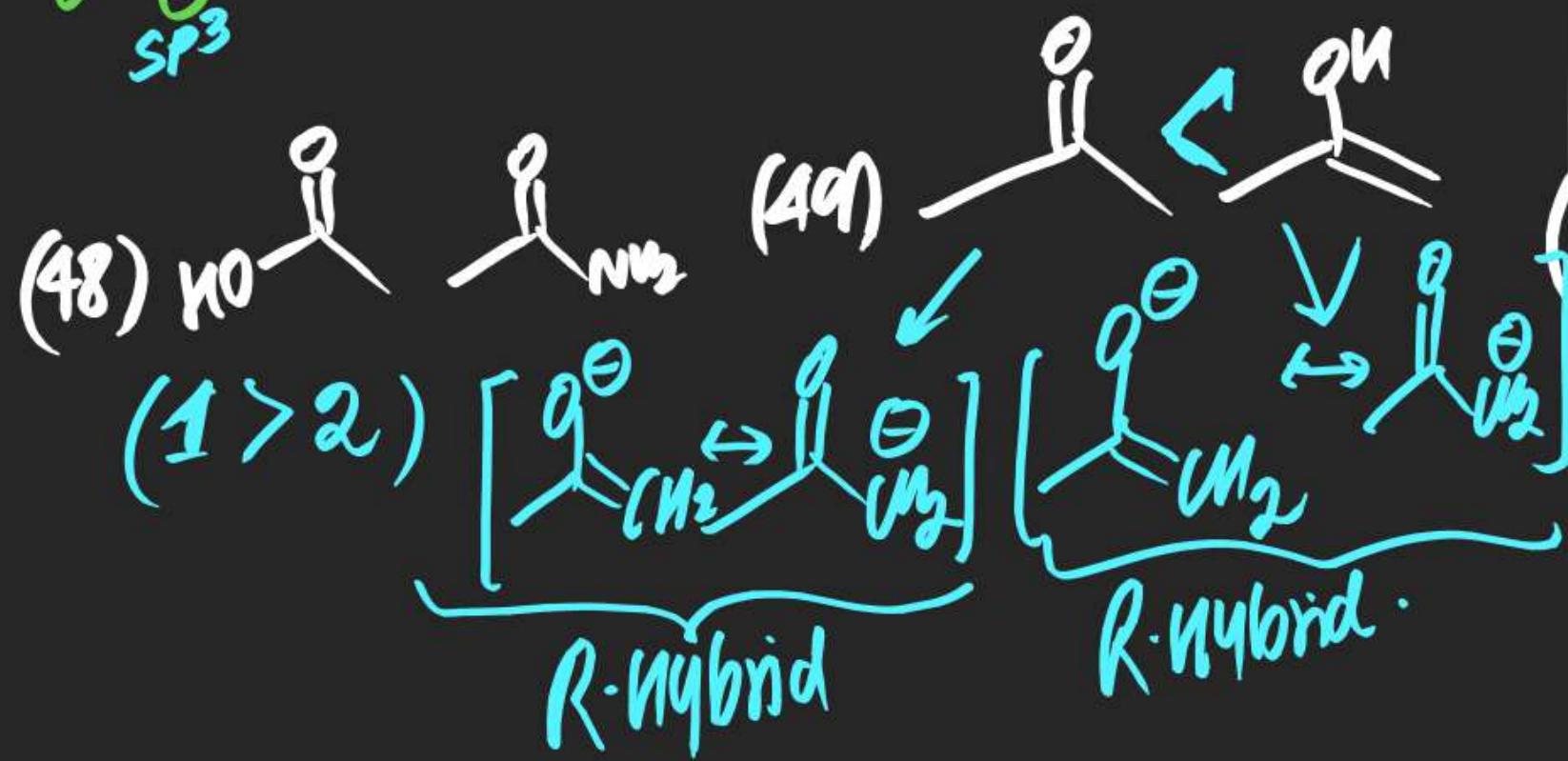
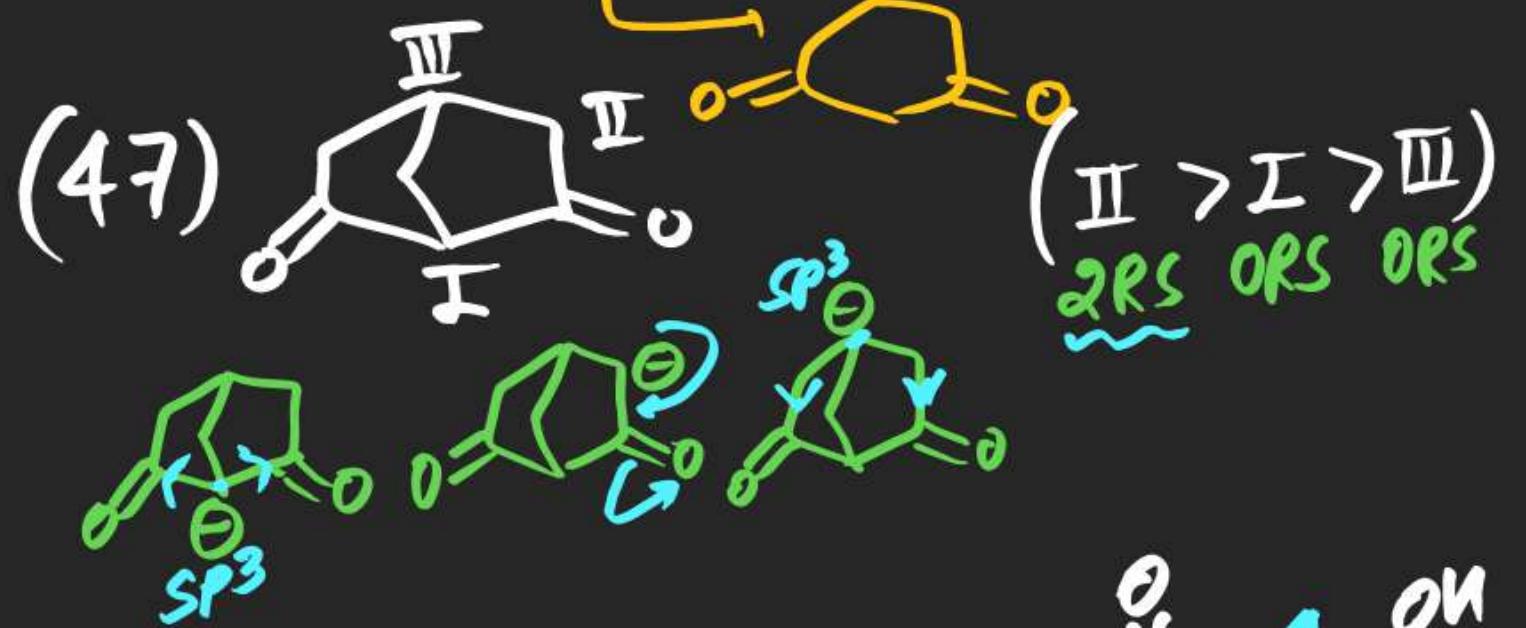
(2RS)

(2>1>3)



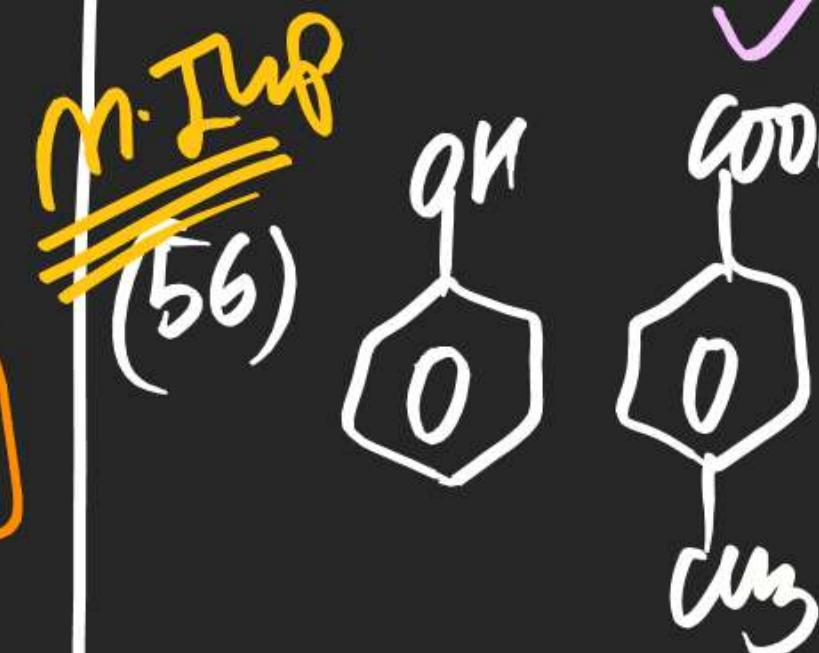
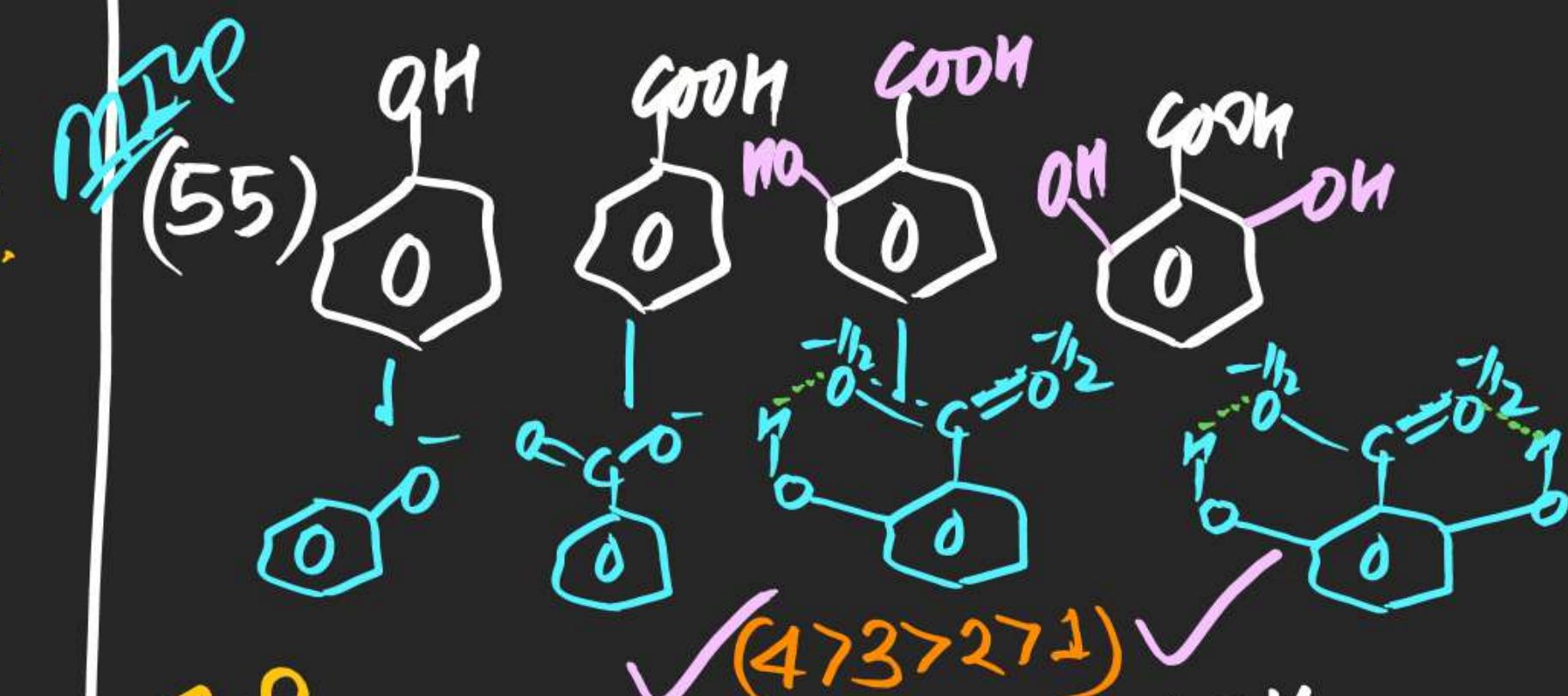
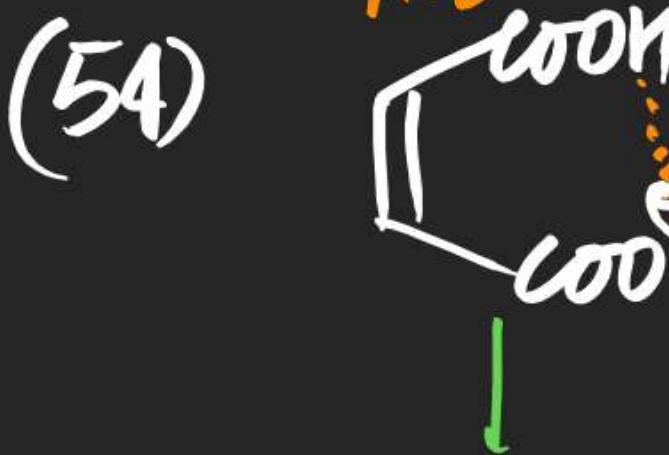
(2RS)





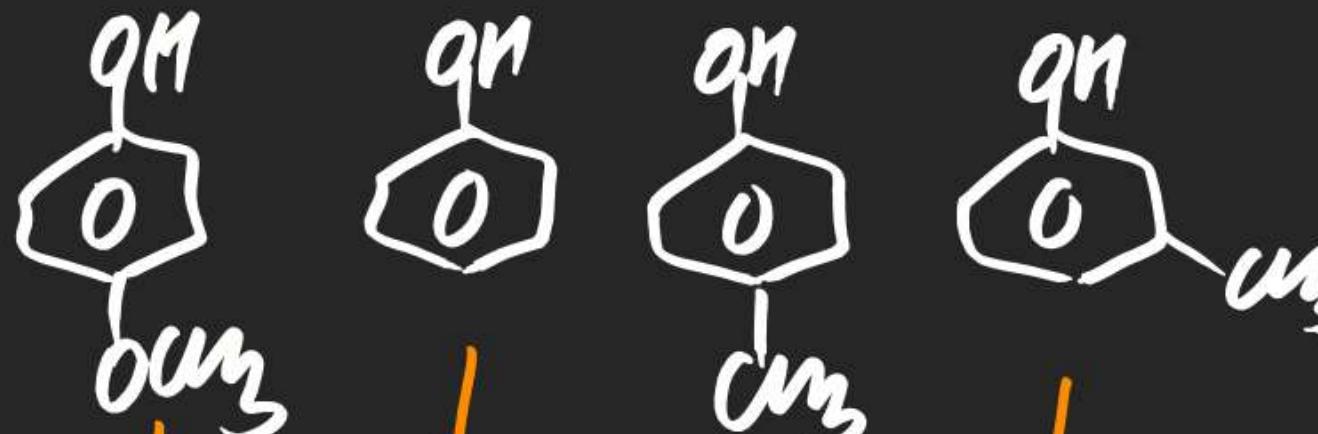


more stable due to n bond

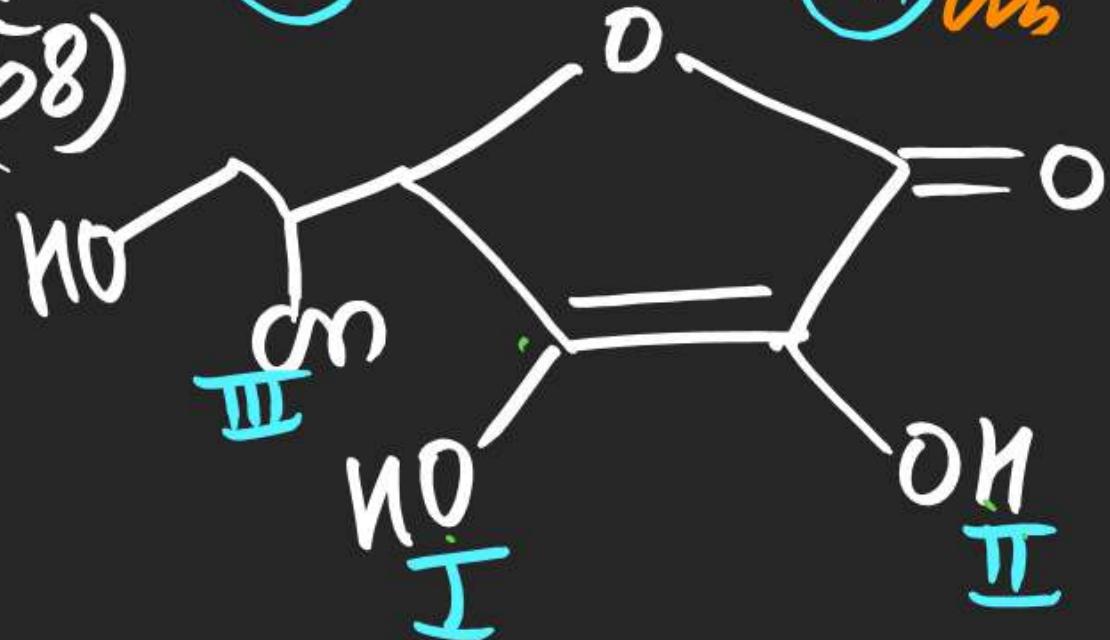


4 > 2 > 3 > 1

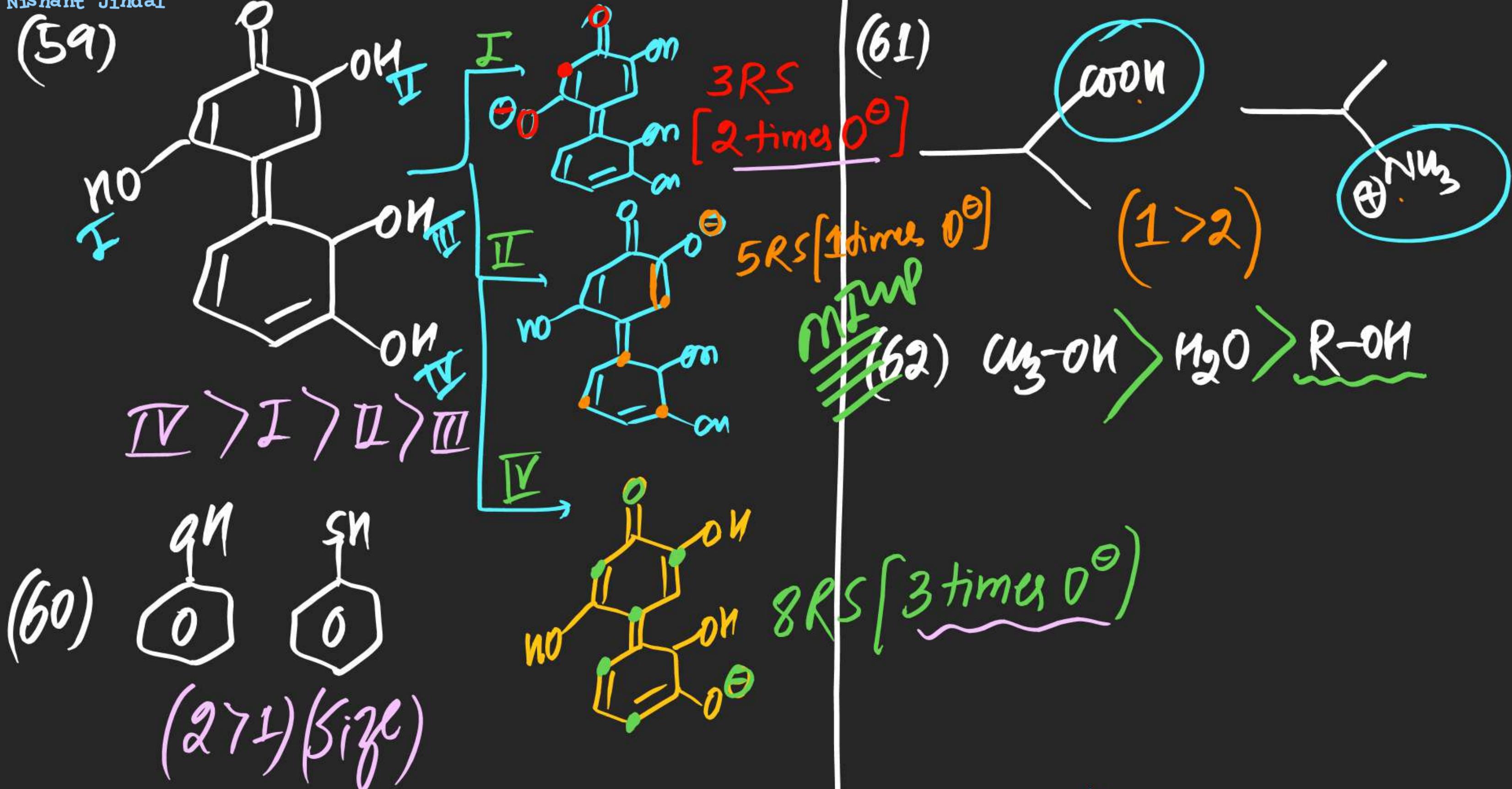
(57)

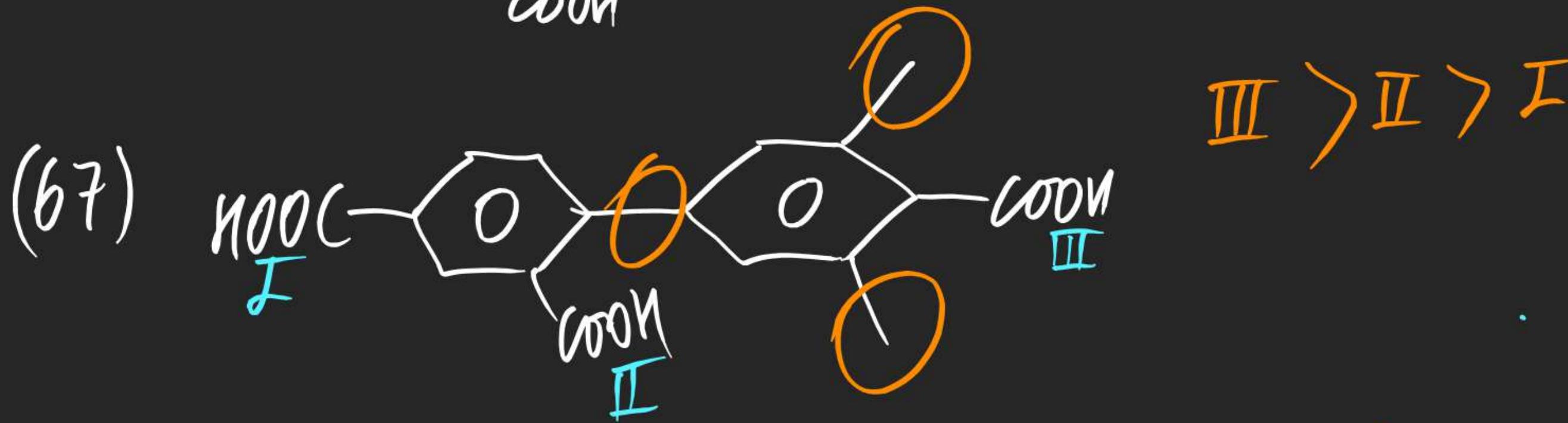
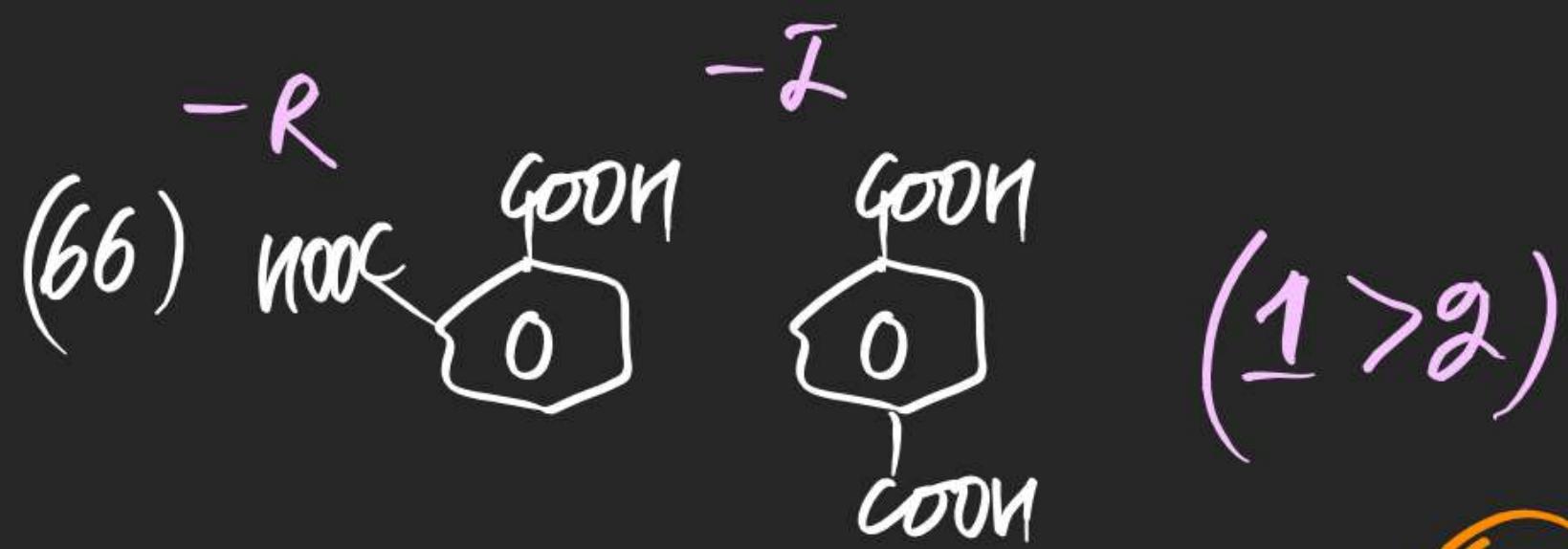
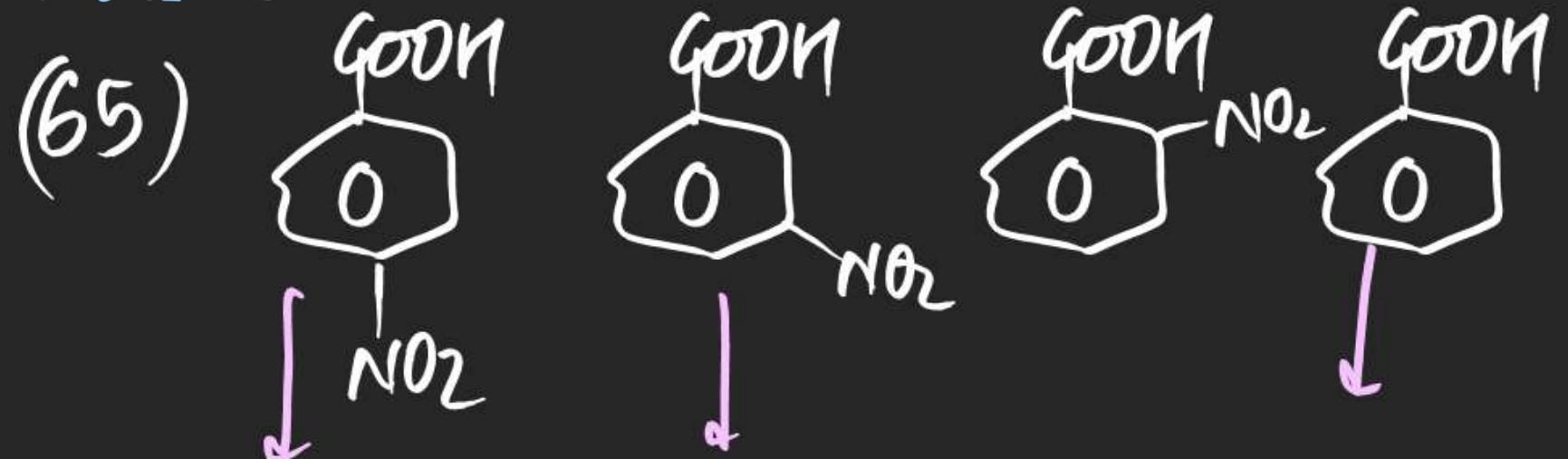
 $(2 > 4 > 3 > 1)$ 

(58)

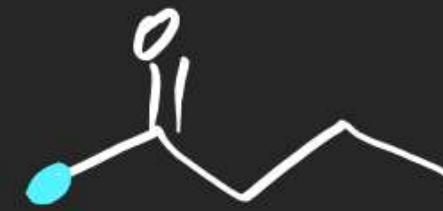
 $\text{I} > \text{II} > \text{III}$ $(\text{BRS}) (\text{GRS}) (\text{ORS})$

Ascorbic Acid
(vitamin-C)

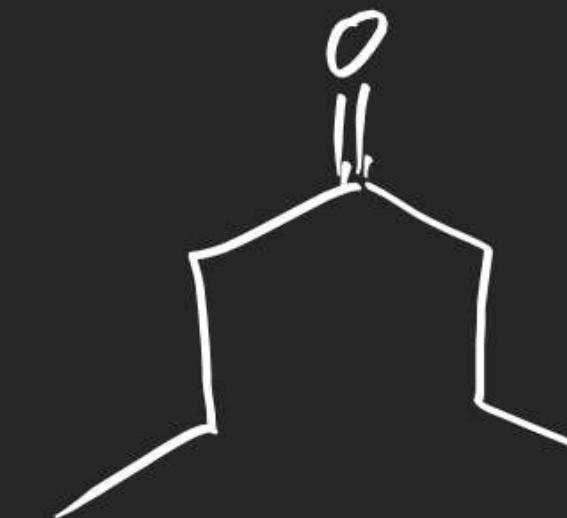
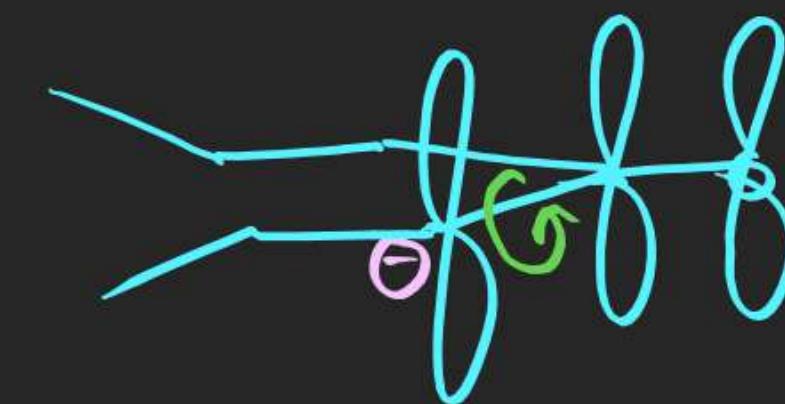
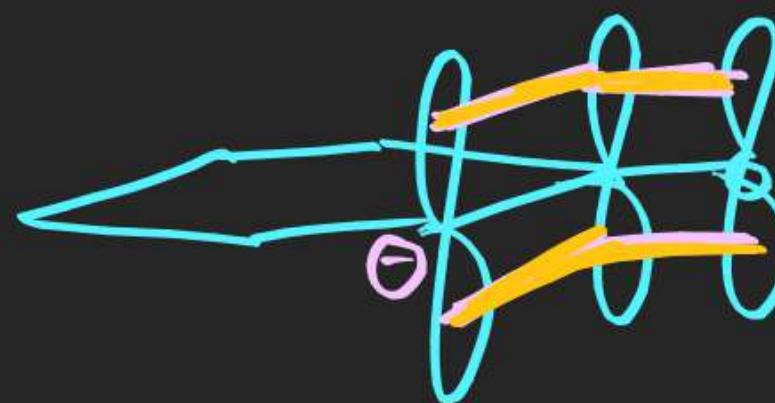




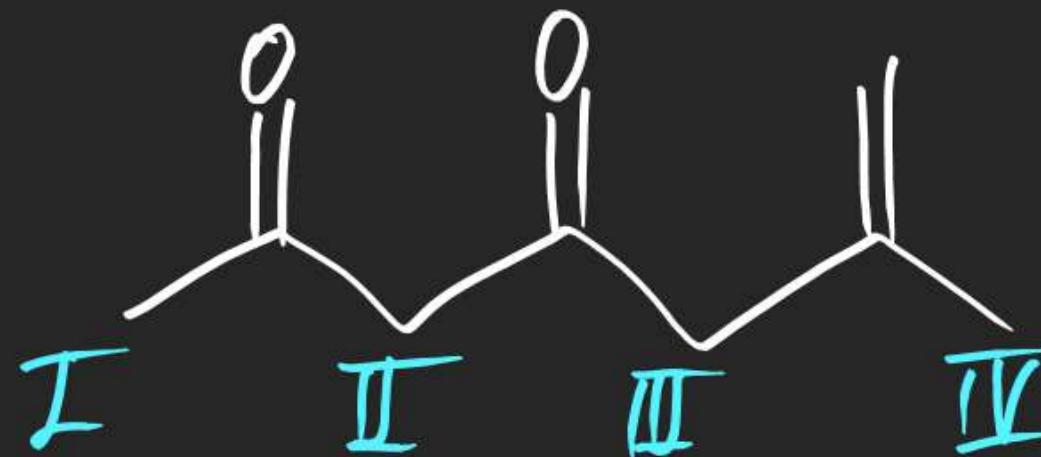
(68)

 $1 > 2 > 3$ $(4R,S) (3R,S) (2R,S)$

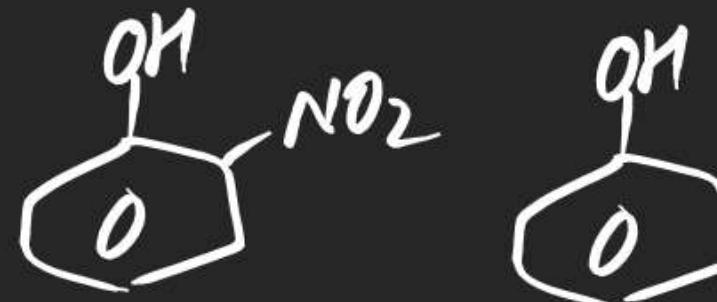
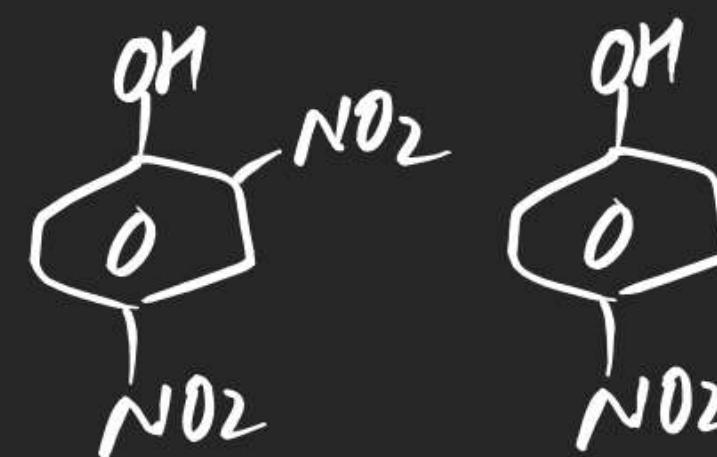
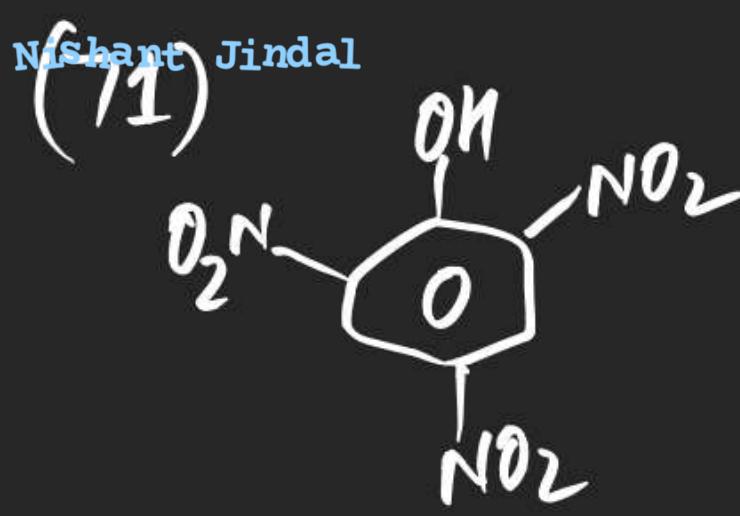
(69)

 $(1 > 2)$ 

(70)

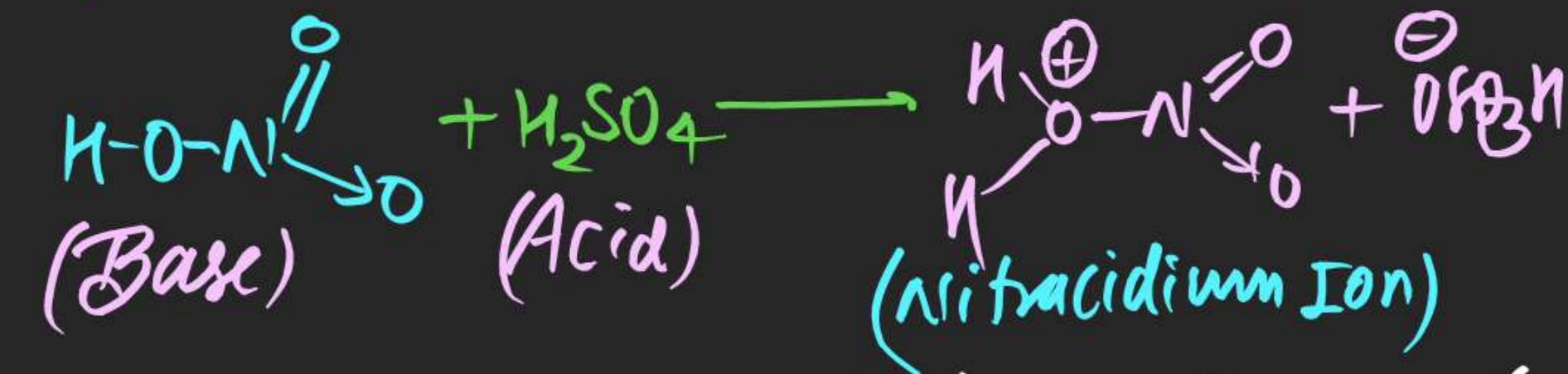


$\boxed{II > III > I > IV}$



(72) A mixture contains HNO_3 & H_2SO_4 write possible Reaction.

Soln:



(73) which of the following don't have carboxy ($-\text{COOH}$) group.

- (i) Vinegar (Acetic Acid)
- (ii) Carbolic Acid

(iii) Benzene Sulphonic Acid

(iv) Picric Acid

(v) Squalic Acid

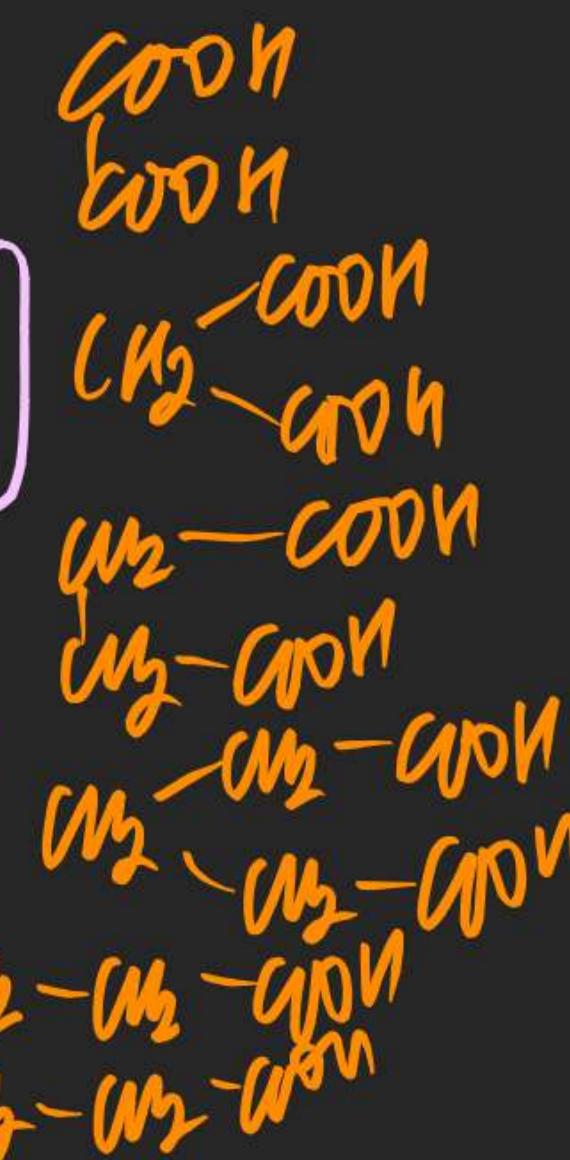
(vi) Oxalic Acid

(vii) Malonic Acid

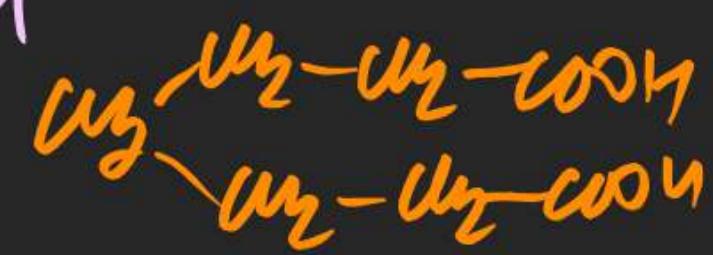
(viii) Succinic Acid

(ix) Glutamic Acid

(x) Adipic Acid



(xi) Palmitic Acid

O M S G A P

(xii) Maleic Acid

(xiii) Fumaric Acid

(xiv) Malic Acid

(xv) Tartaric Acid

(xvi) Lactic Acid

(xvii) Pyruvic Acid

(xviii) Citric Acid

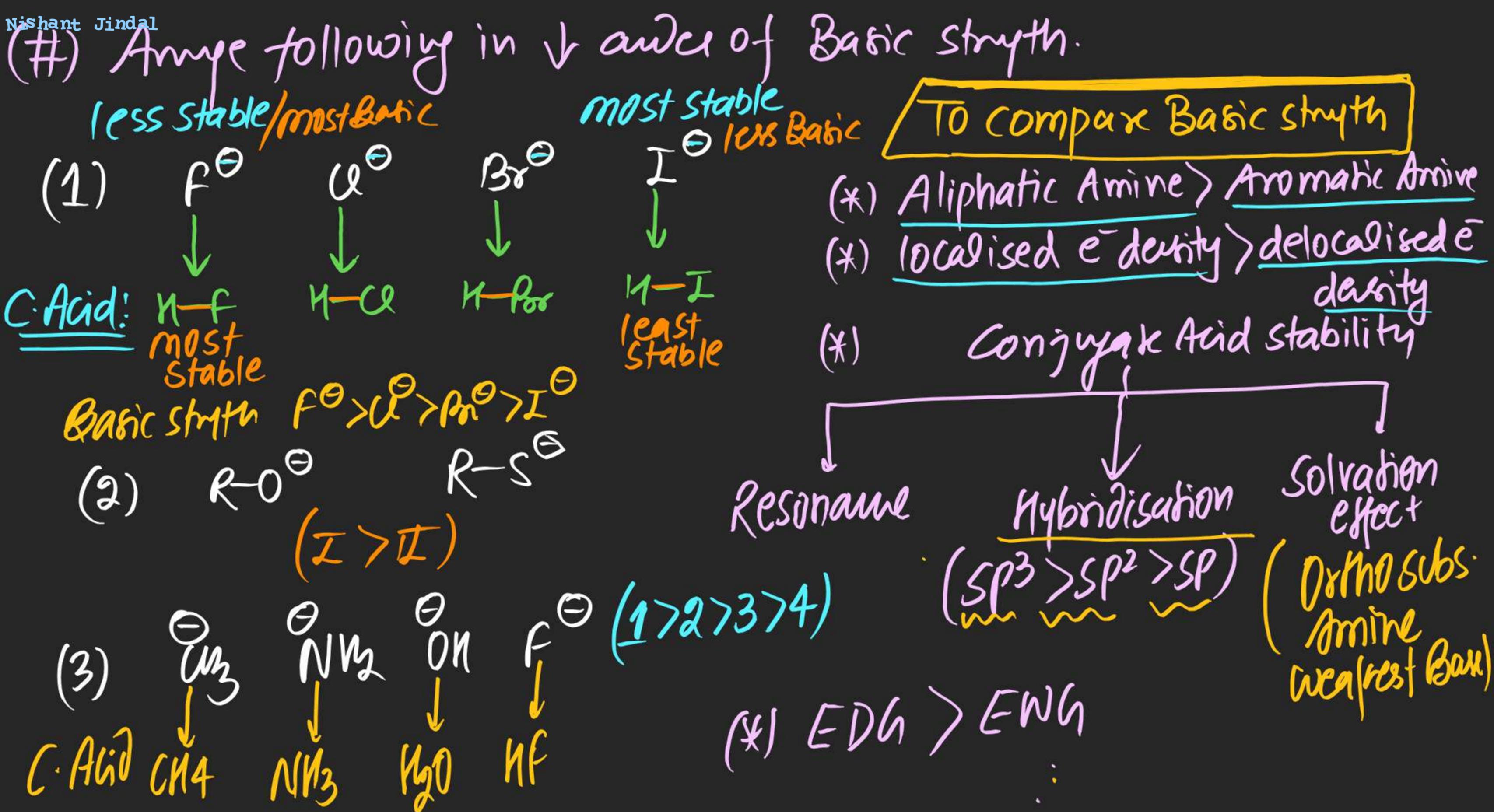
(XIX) Salicylic Acid

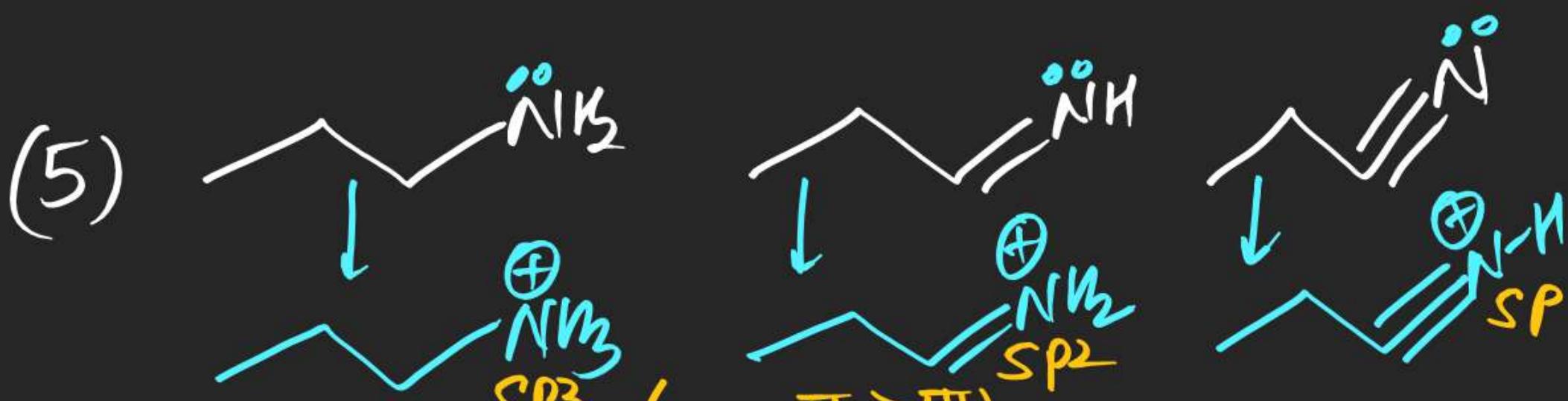
(XX) Cinnamic Acid

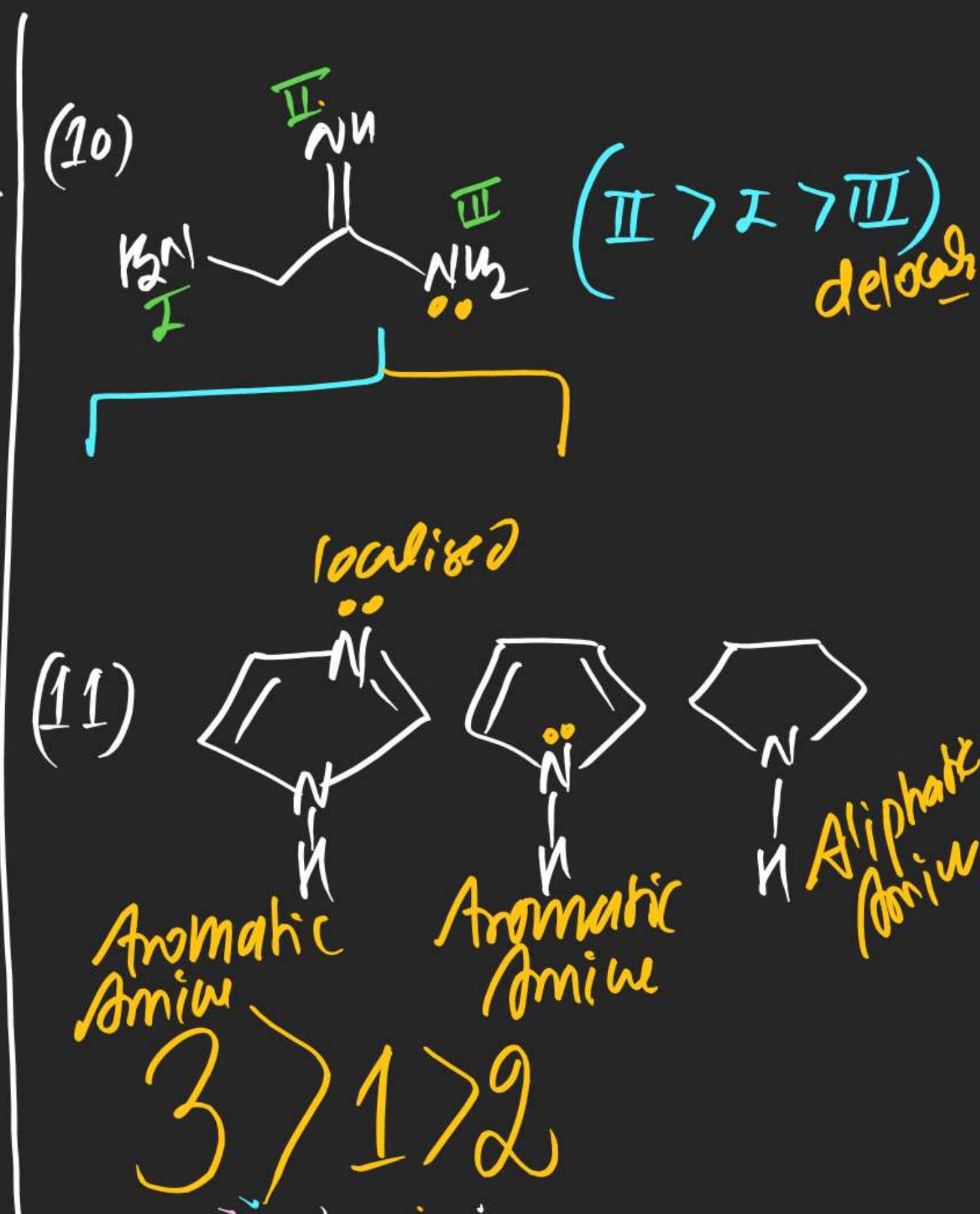
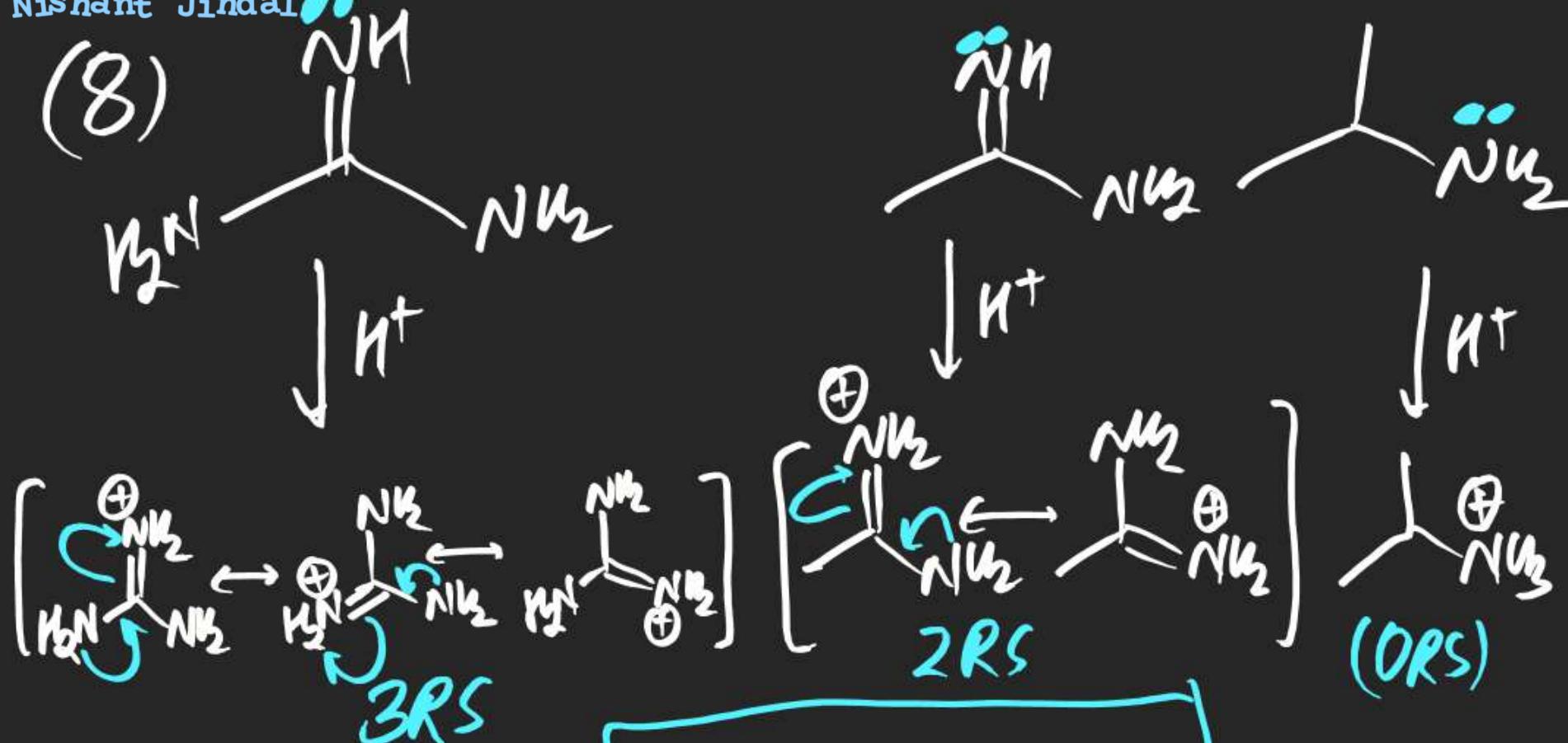
(XXI) Barbituric Acid

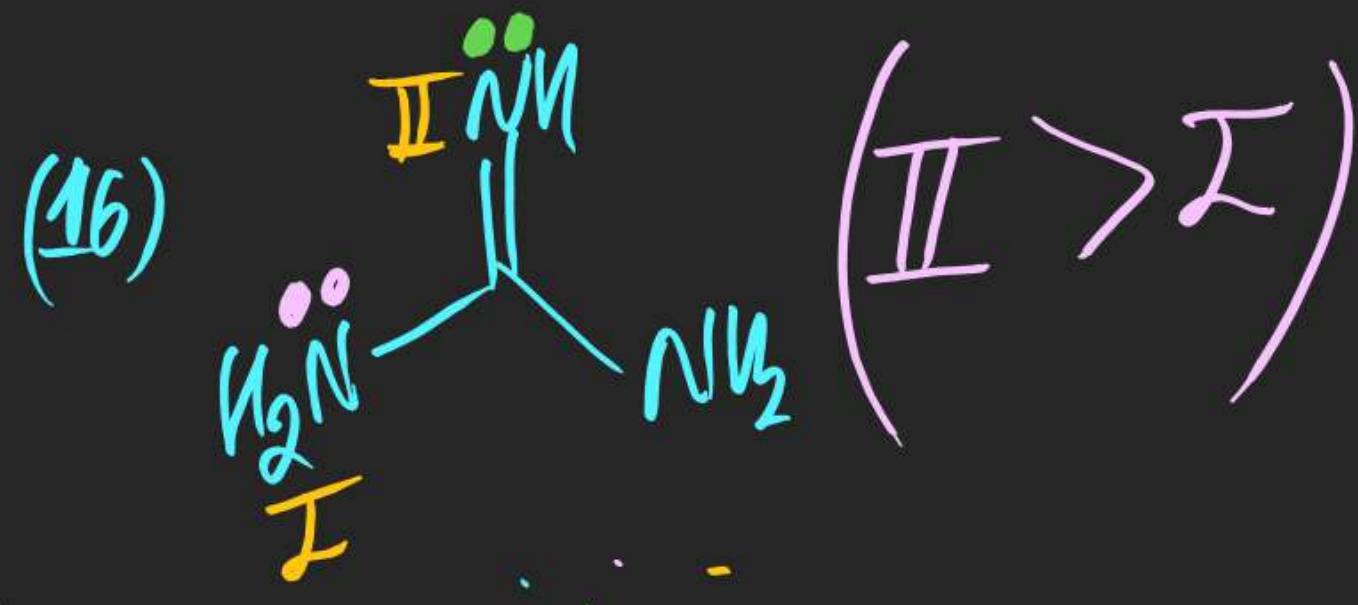
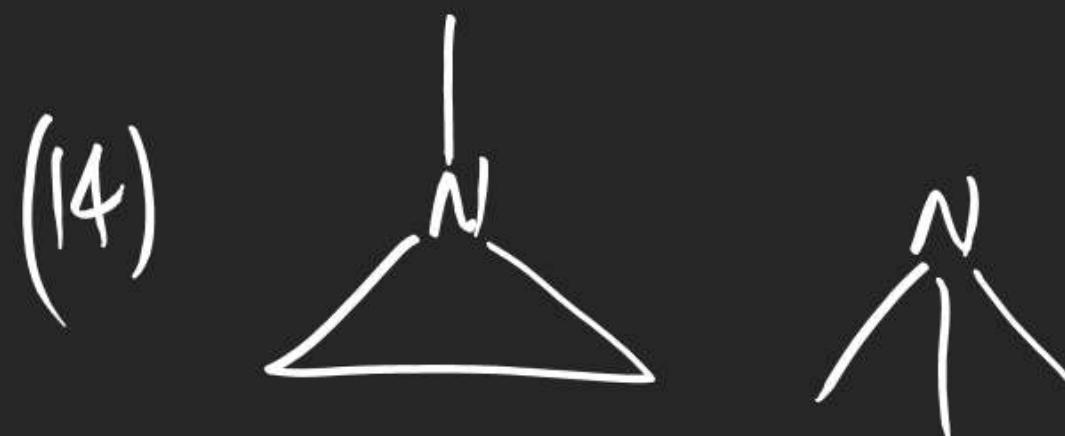
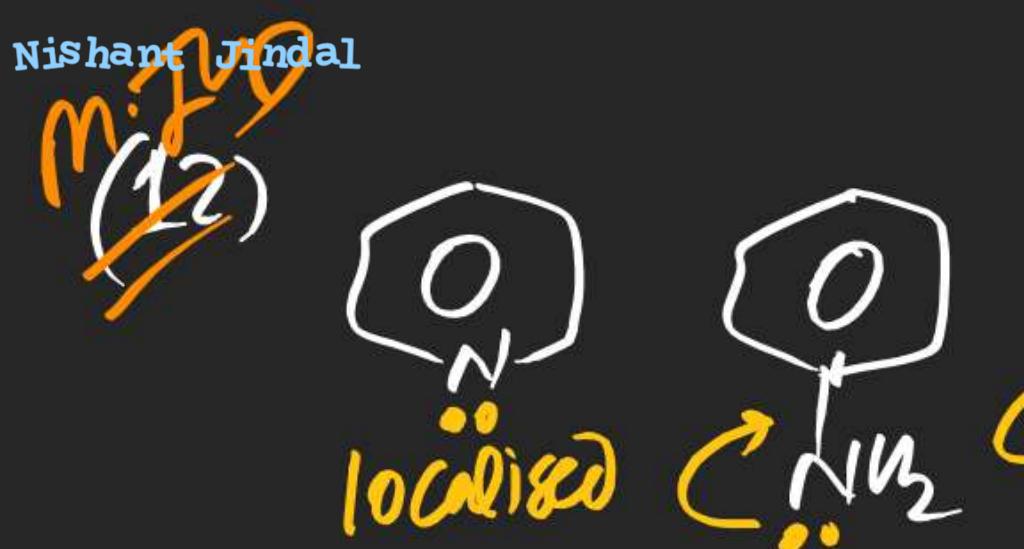
(XXII) Ascorbic Acid

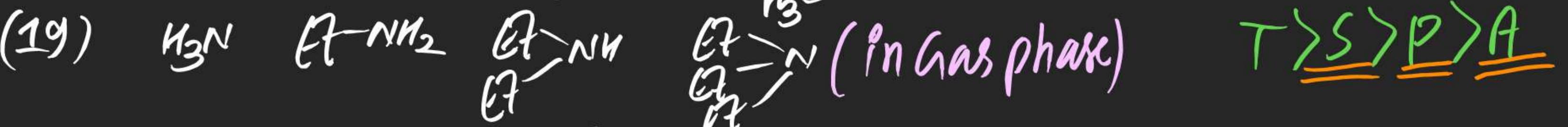
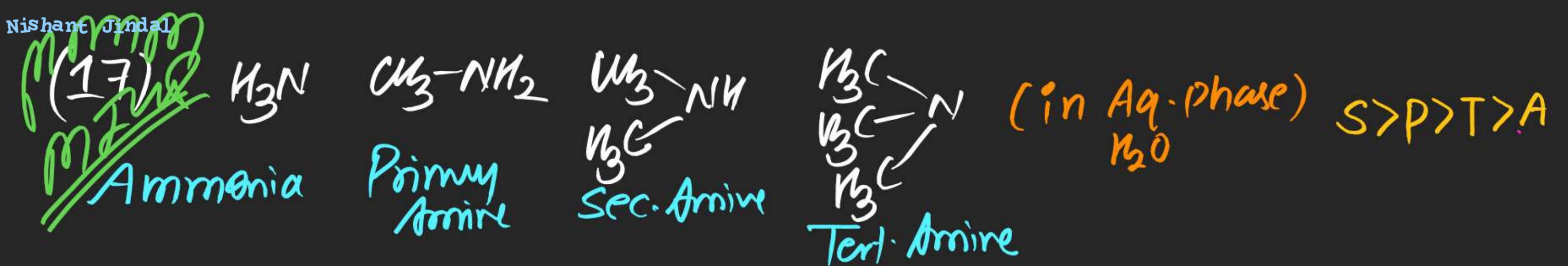
(XXIII) Aspartic Acid

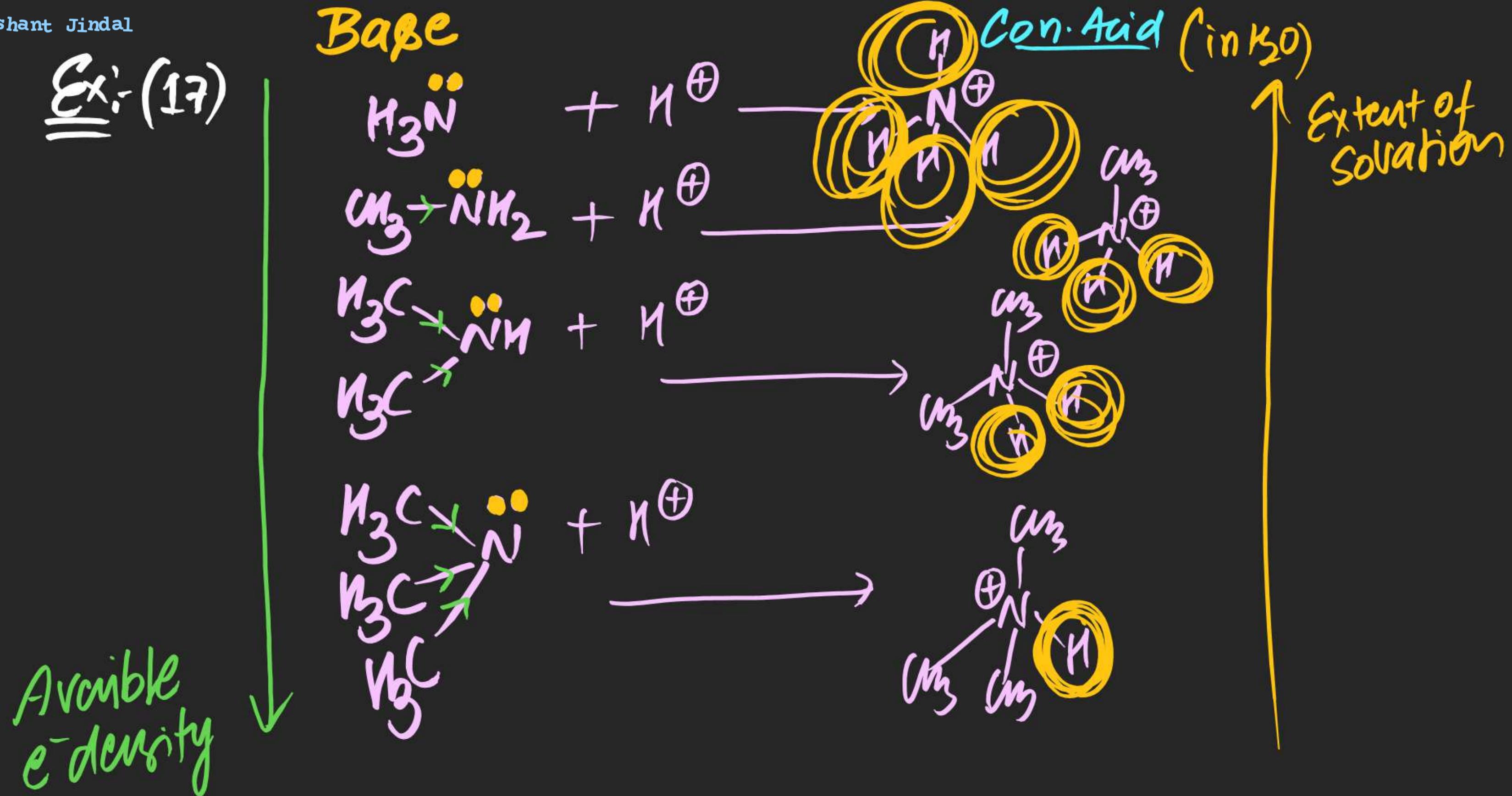










Ex:- (17)

Base	Av e density	Ex of soln.
H_3N	X	$\uparrow\uparrow\uparrow$
{ me-NH ₂	↑	$\uparrow\uparrow$
Me ₂ NH	↑↑	↑
Me ₃ N	(M) ↑↑↑	X

$Me_2NH > Me-NH_2 > Me_3N > NH_3$

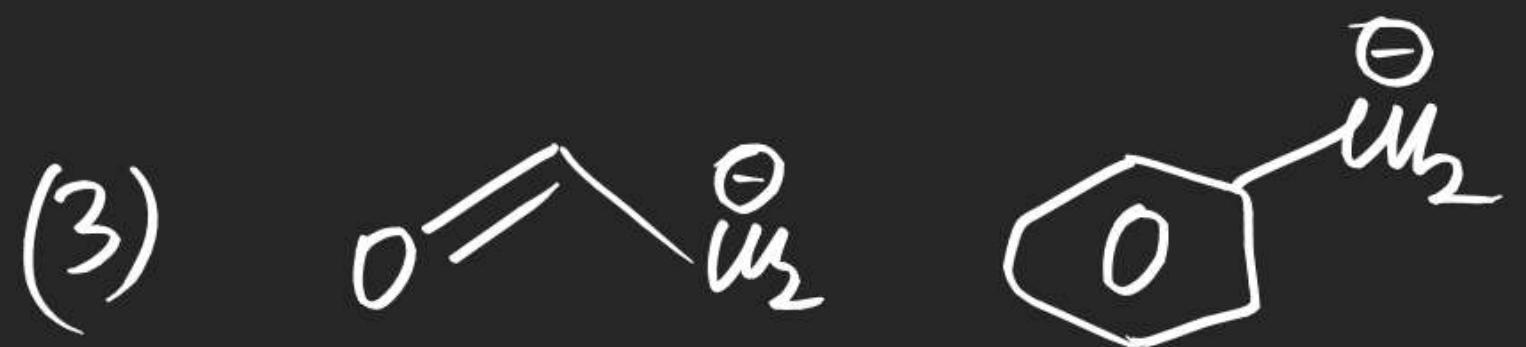
$(S > P > T > A)$.

(Q1)



Resonance Energy

$RE \propto$ Extent of Resonance
 \propto No. of R.S



(5)



(6)



(7)



(8)

