



GENERAL ORGANIC CHEMISTRY

Part-2

for JEE-MAIN

One Shot

4:00 PM Today



By SKM Sir

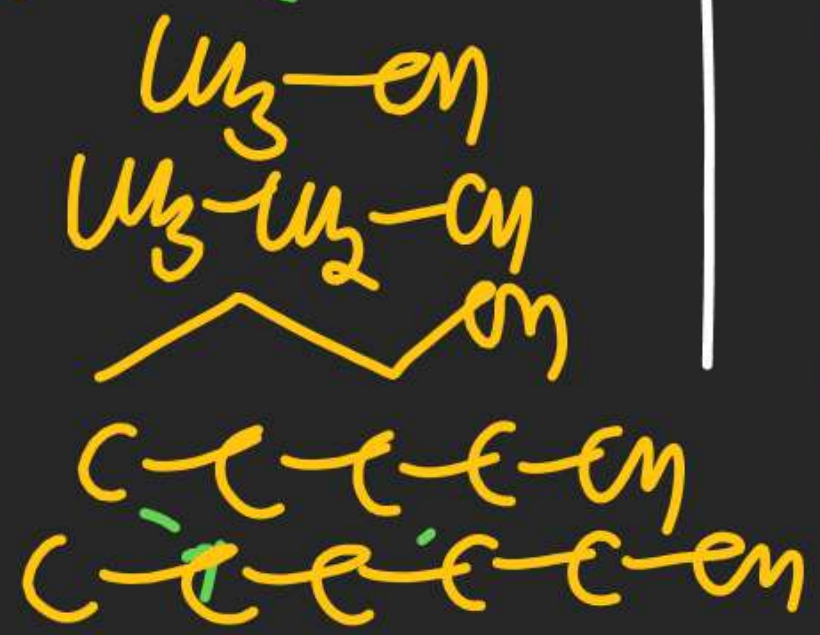
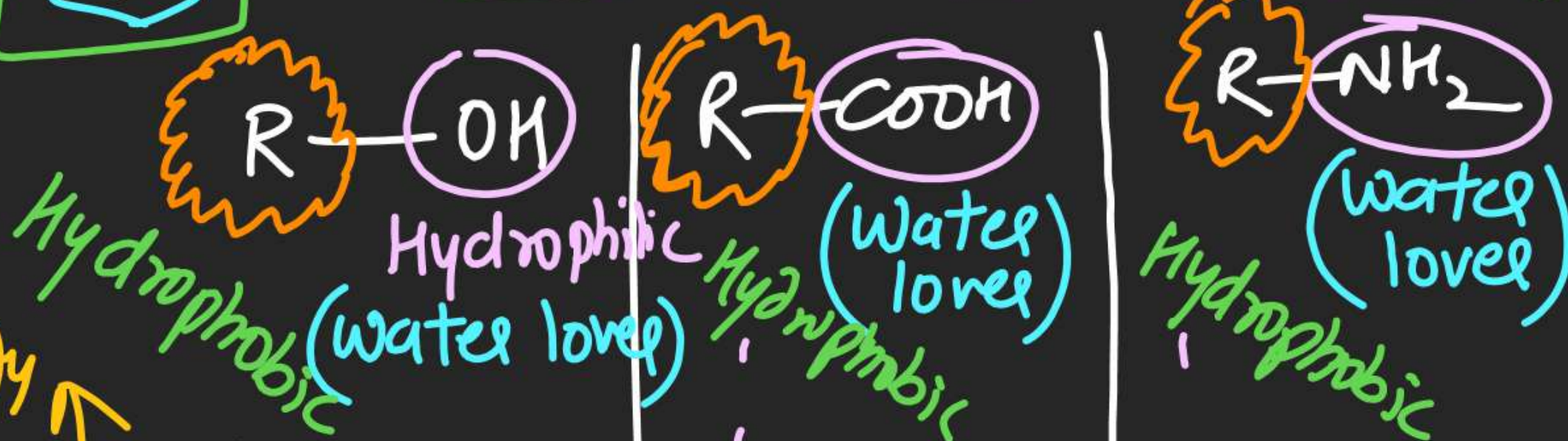


(#) Which of the following has highest solubility
in H_2O



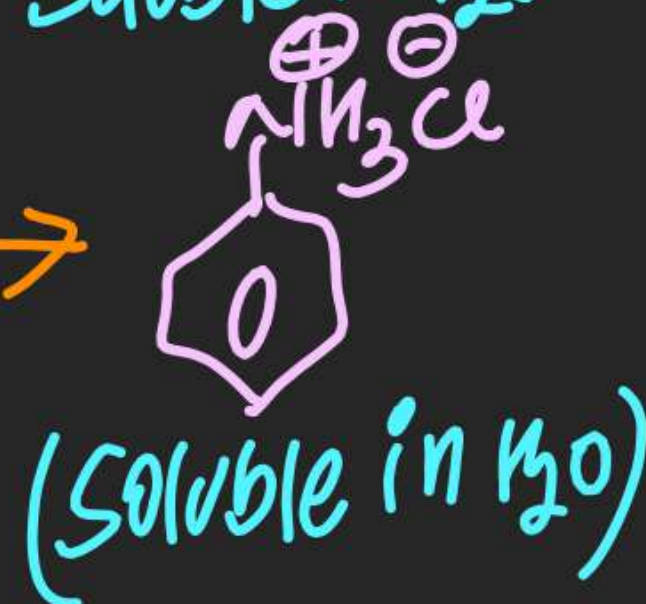
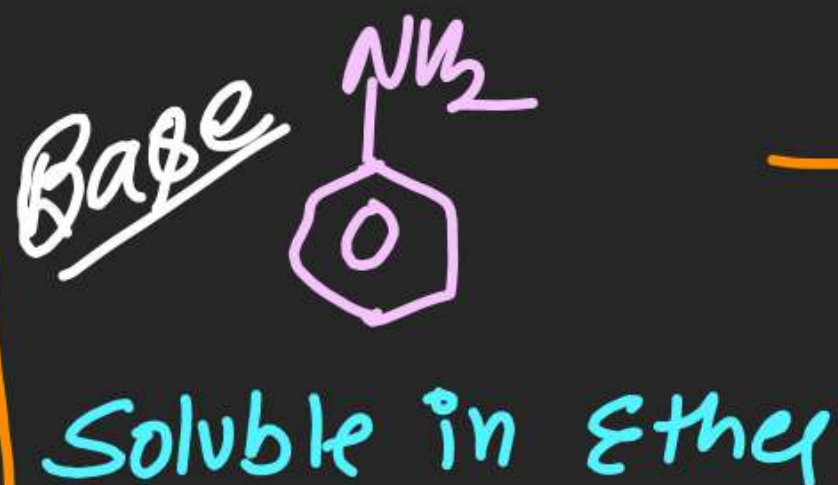
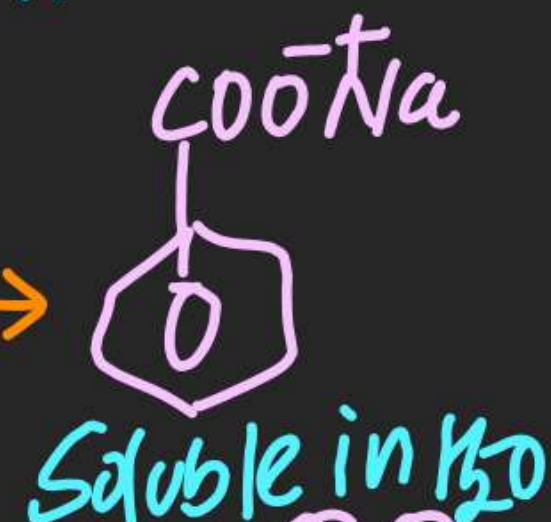
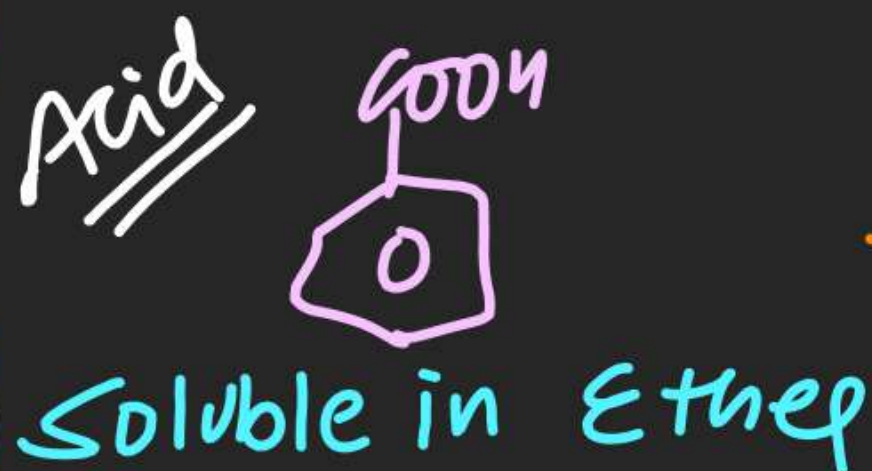
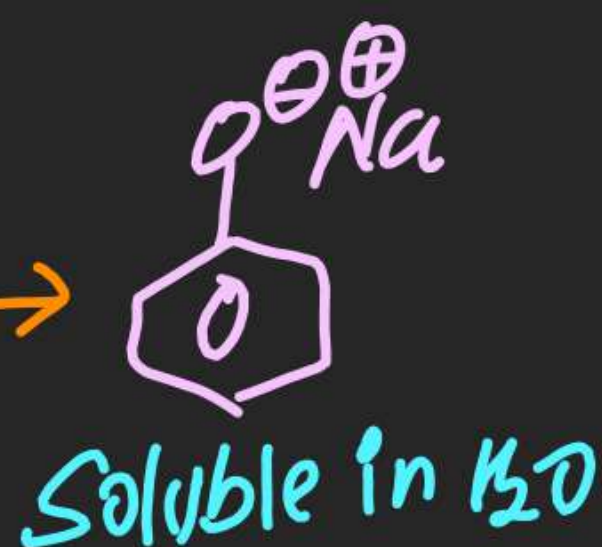
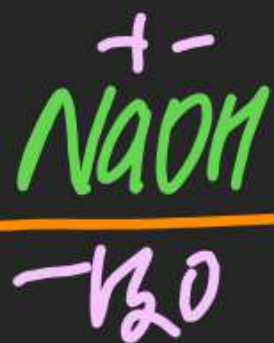
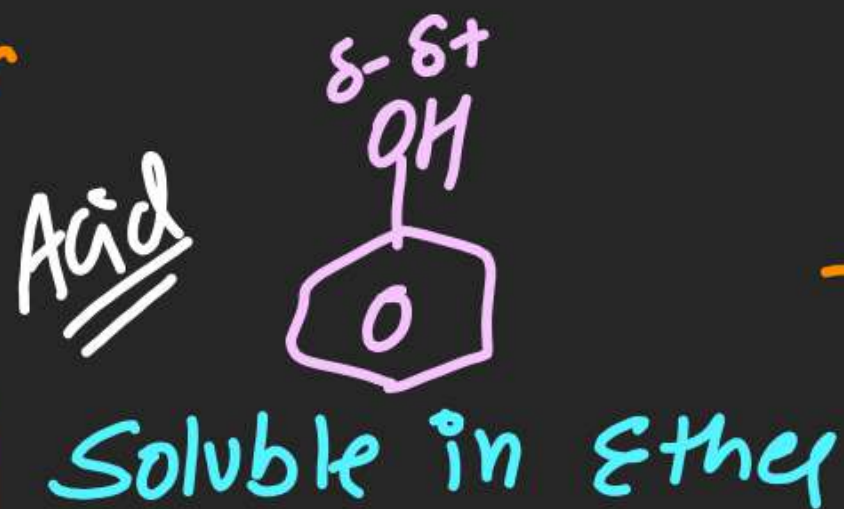
Solubility

Solubility ↑

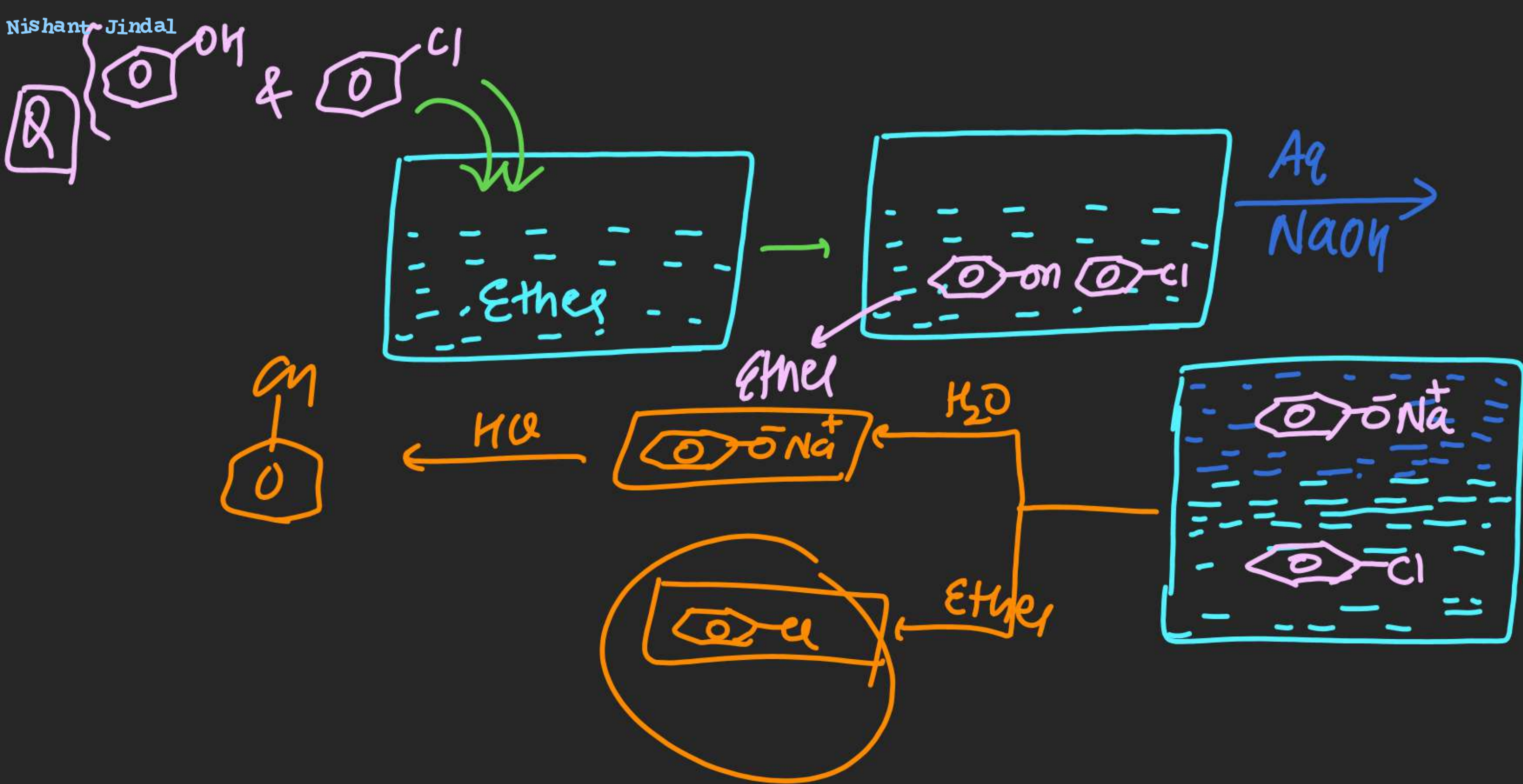


5C

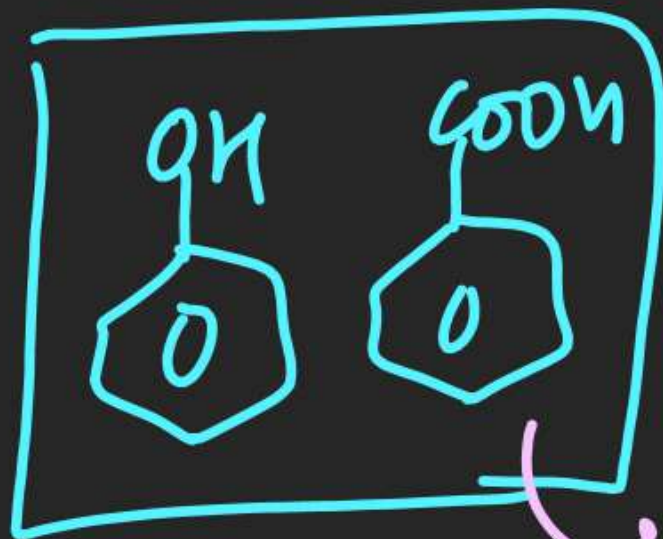
Covalent
Compound
hence
Non
soluble
in H_2O



Ionic
Compound
soluble in
 H_2O
irrespective
of hydrophobic
part



(i)



ester

(ii)



ester

Q

HA₁

HA₂

HA₃

Basic strength

↓

↓

↓

C. Base

A₁[⊖]

A₂[⊖]

A₃[⊖]

(stable)

बेसिक strength निकालने का दृष्टिकोण

(a) Aliphatic Amine > Aromatic Amine

(b) localised lone pair > delocalised lone pair

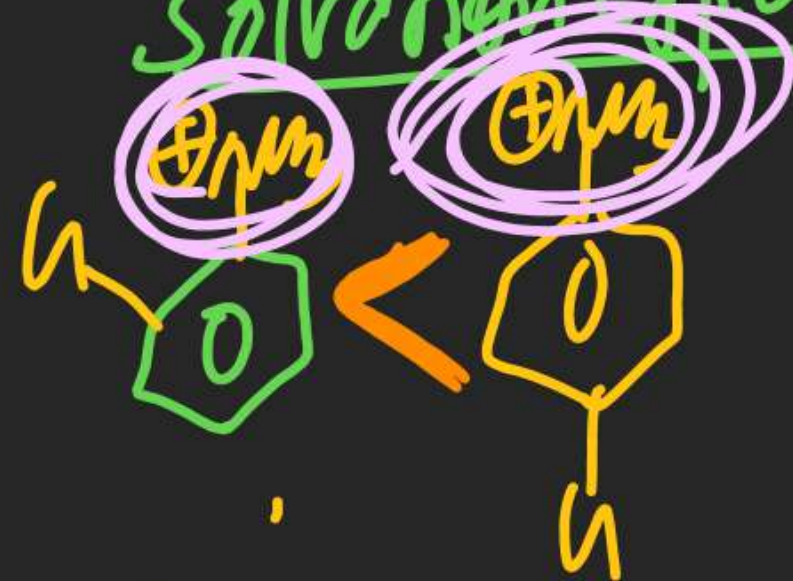
(c) stability of C-Acid

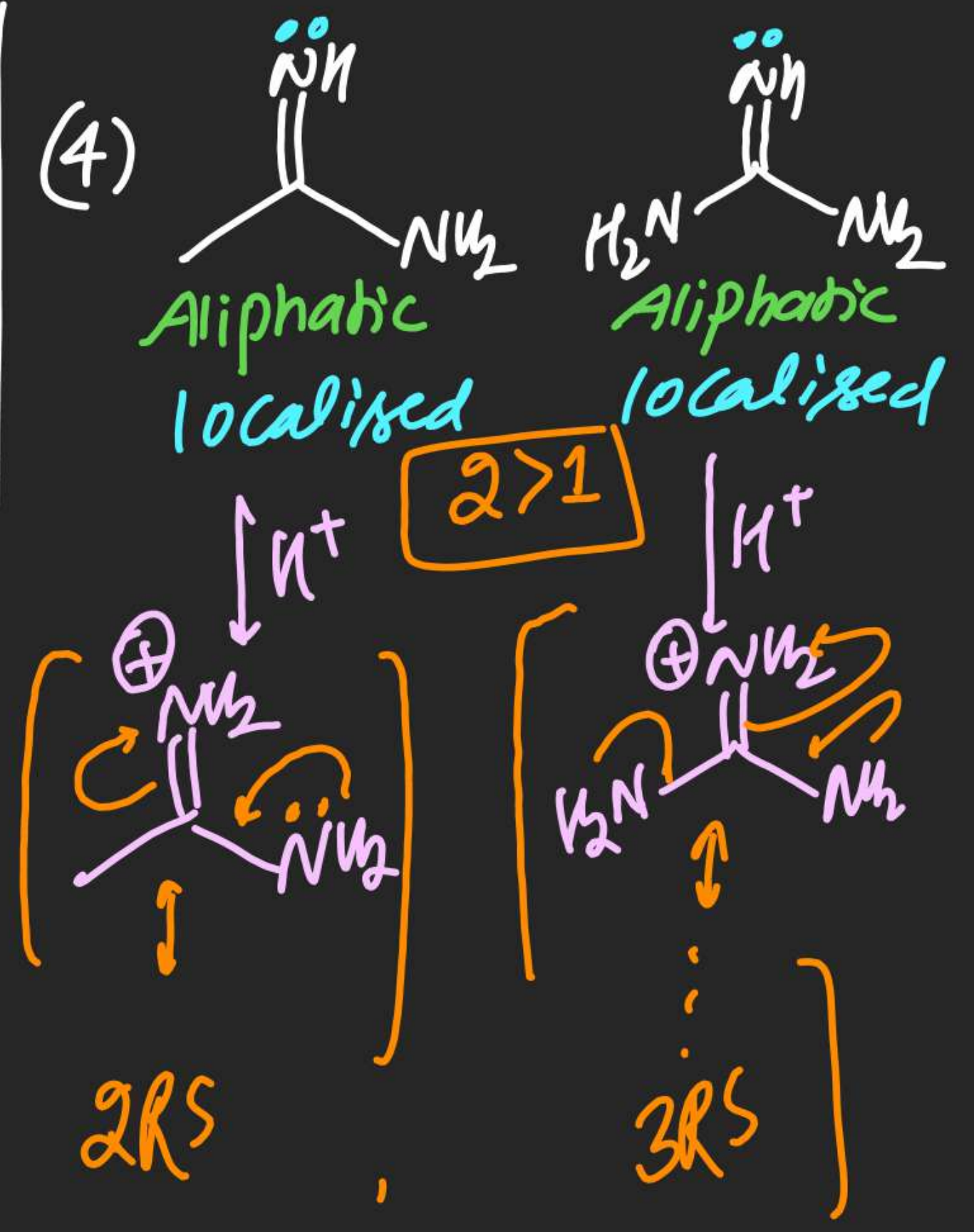
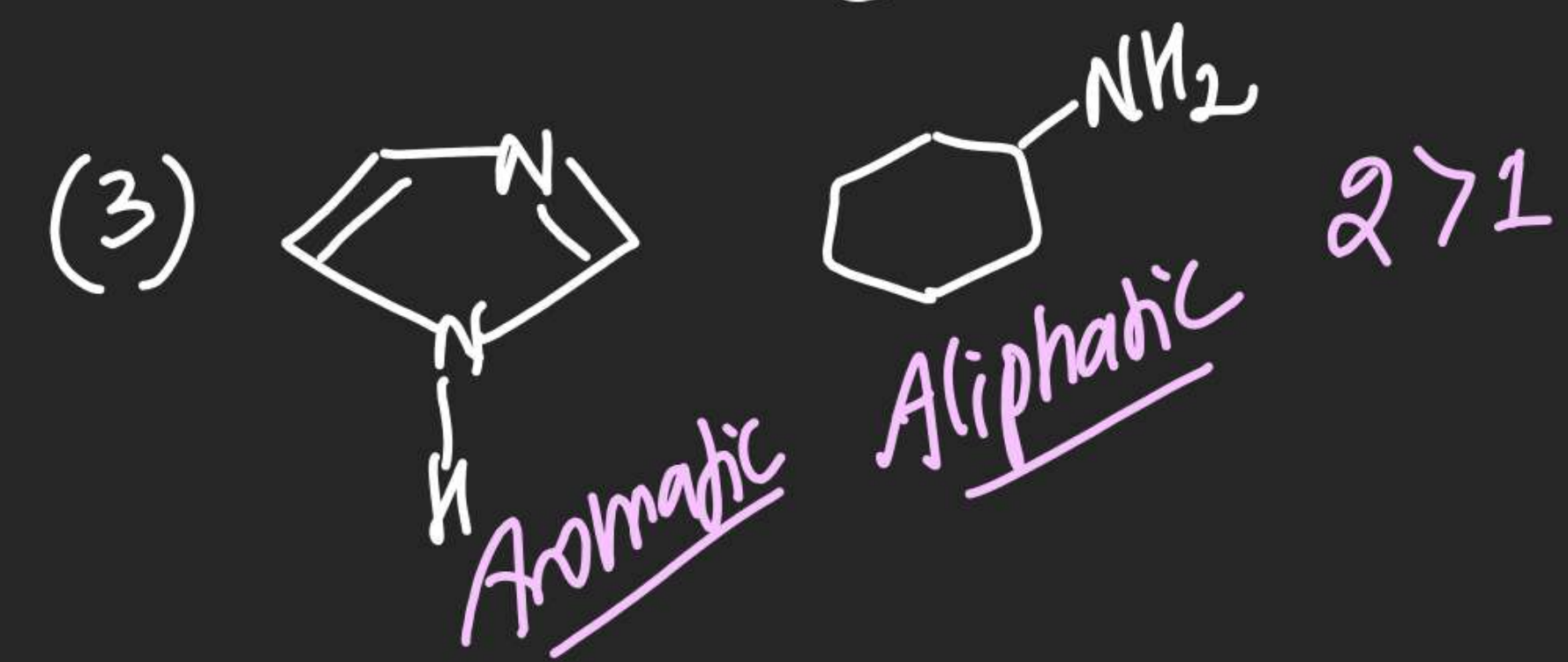
By Resonance:

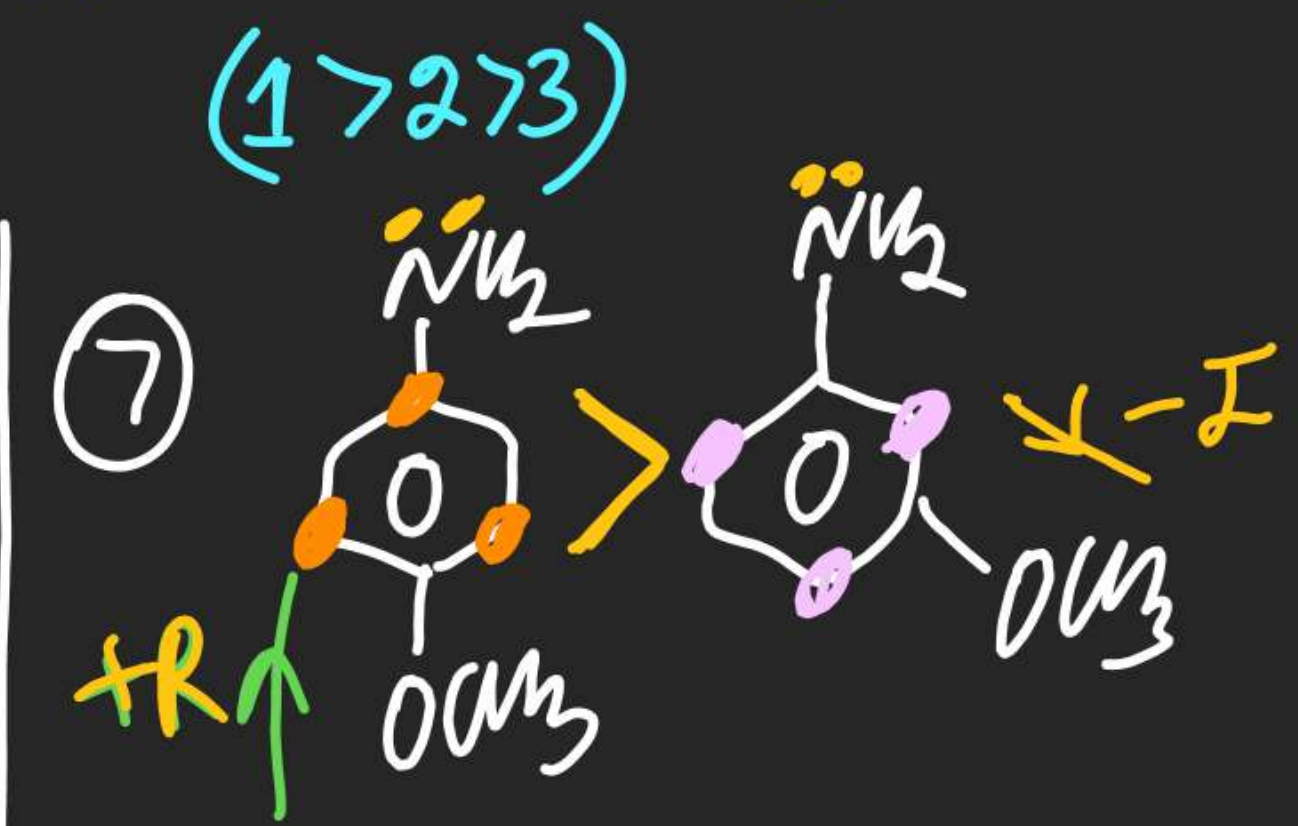
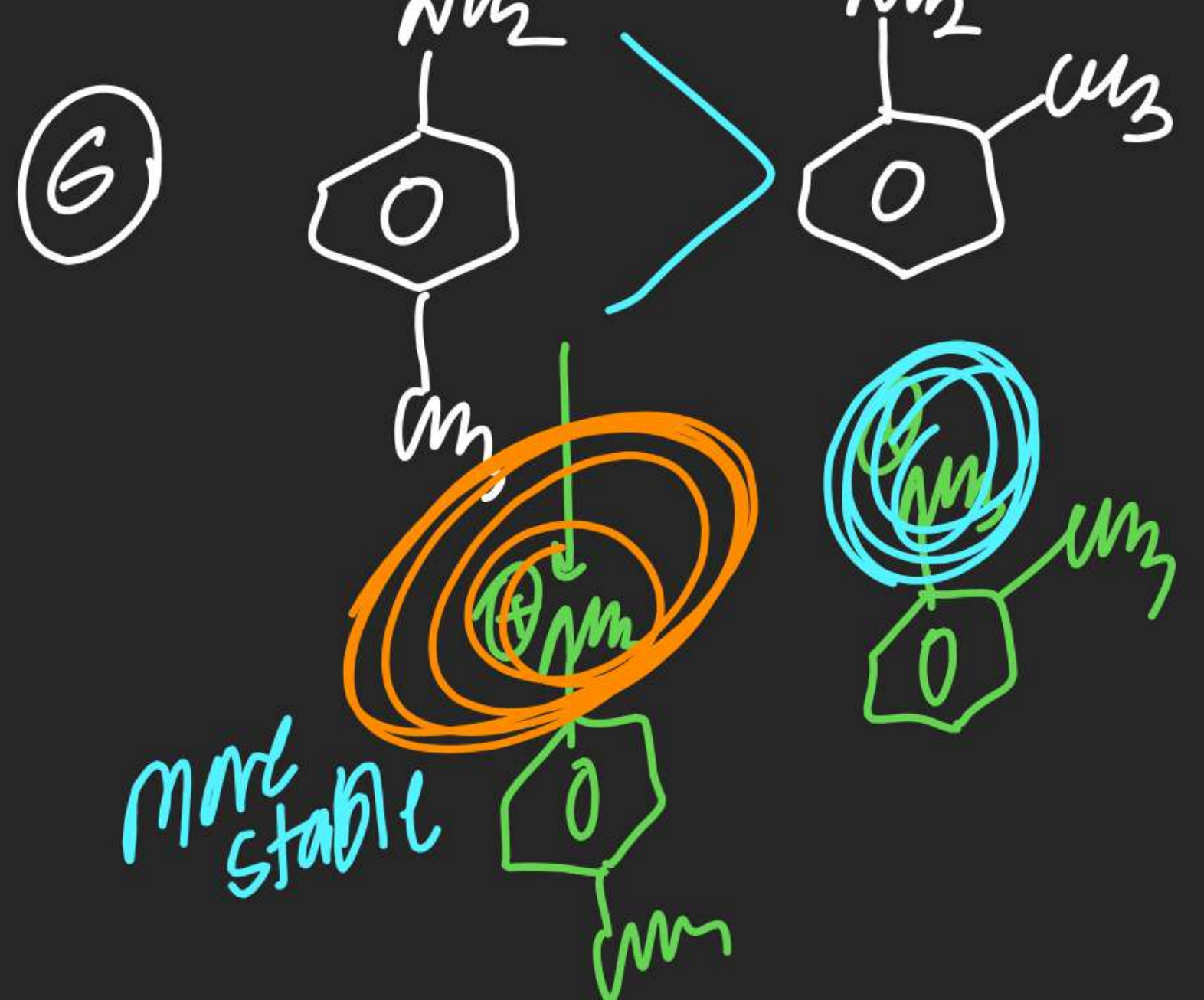
hybridisation
 $sp^3 > sp^2 > sp$

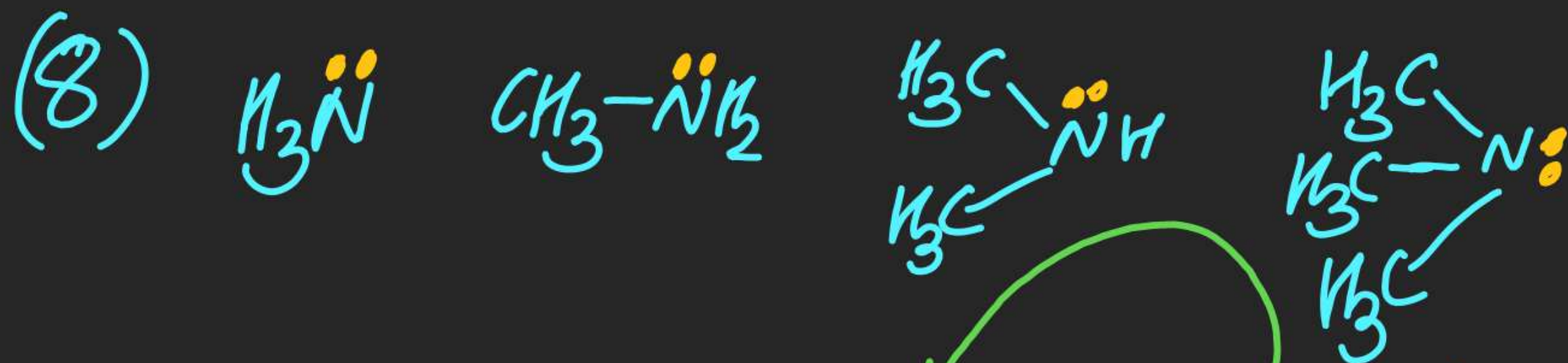
(d) EDG > EWG

Solvation effect

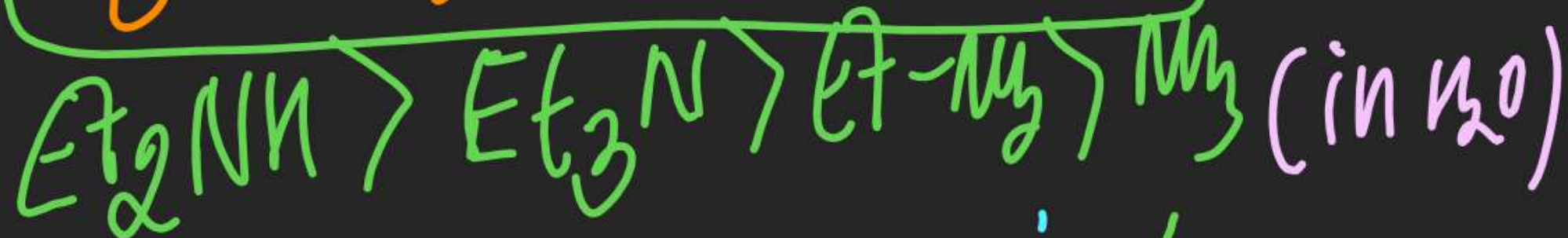
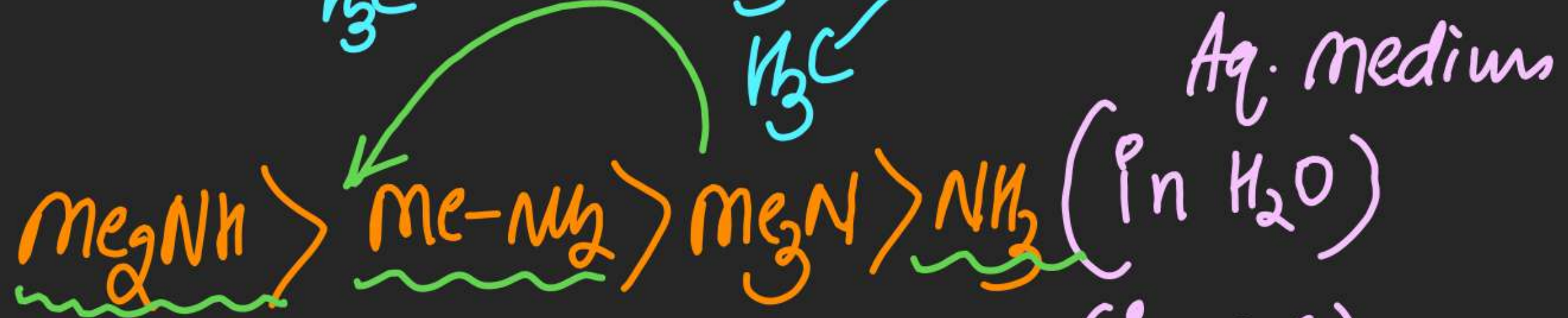








Basic strength:



Telegram

SKM-Nucleus
education

Tuesday Thursday Saturday

AK app + AK yt

Monday wednesday Friday

Yt

SKM-Nucleus
education

4 pm - 5:30 pm

One shot + Question Solving

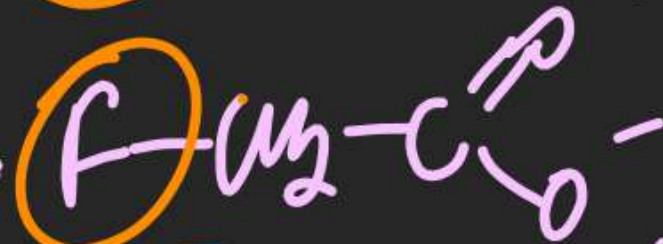
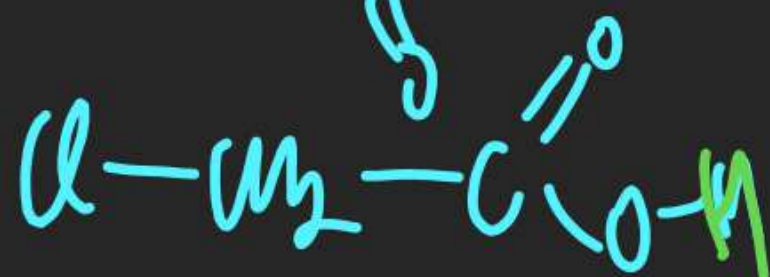
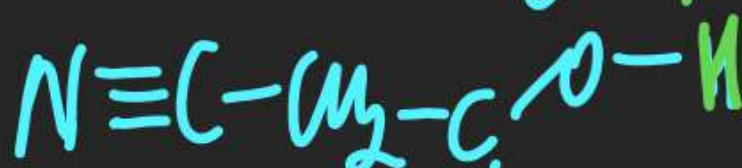
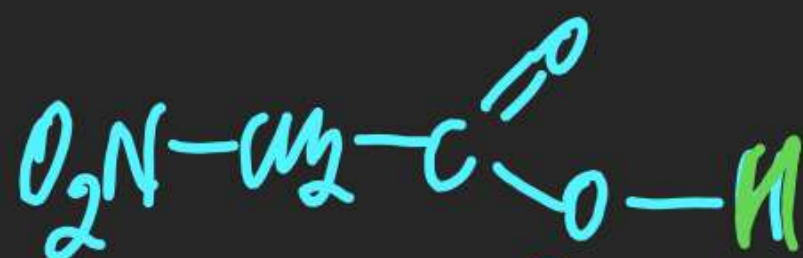
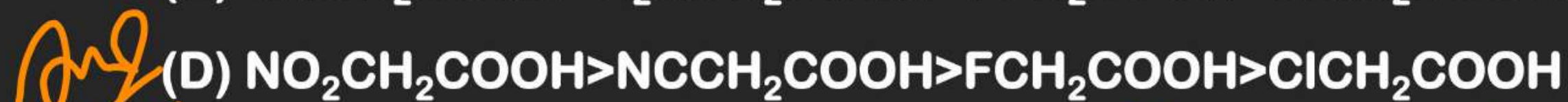
Aromatic (Aromatic sheet
EX-1 & 2)

main & PYQ (9:30 pm - 10:30 pm)

10 + 10 + 5 SKM

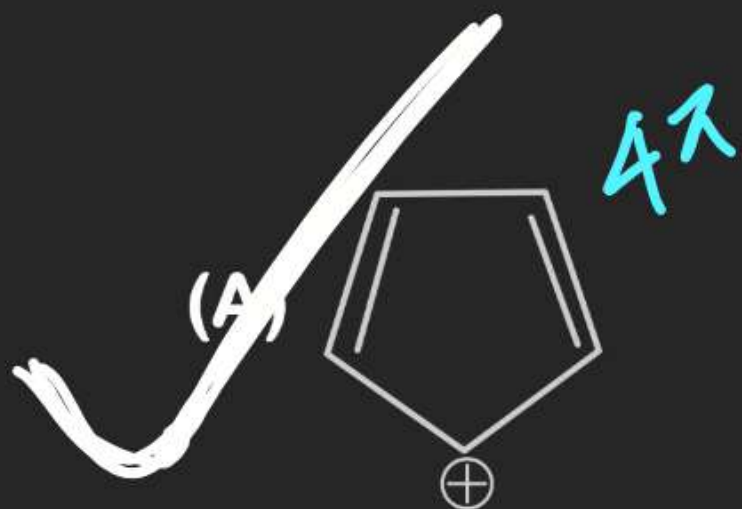
1. The correct decreasing order for acid strength is:

[9 Jan 2019]

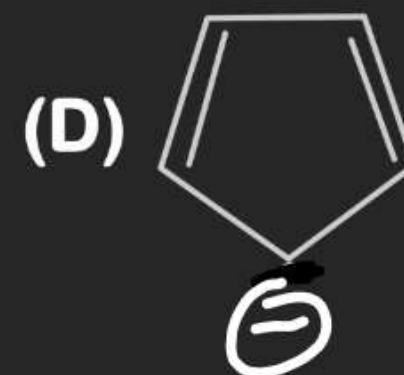
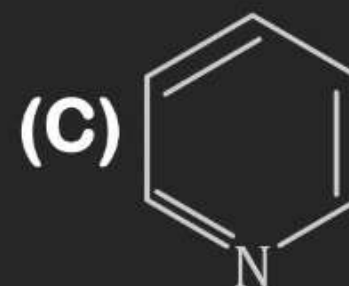


2. Which of the following compounds is not aromatic?

[9 Jan 2019]



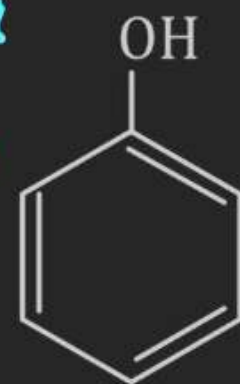
Anti Aromatic



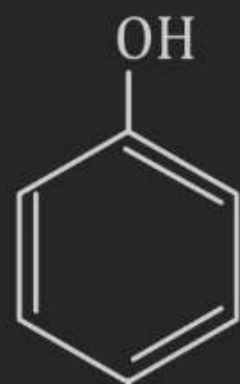
3. The increasing order of the pK_a values of the following compounds is:

Acidic strength $\propto K_a$
 $\propto \frac{1}{pK_a}$

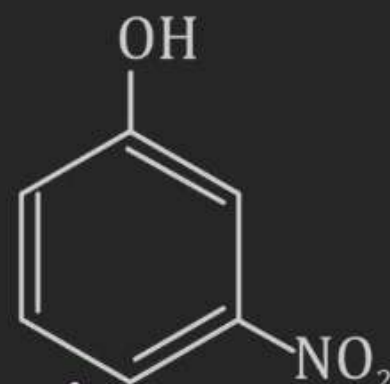
[10 Jan 2019]



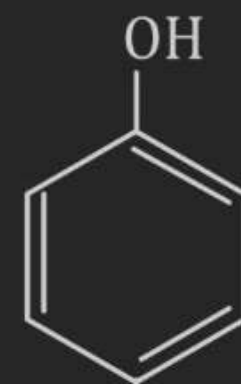
A



B



C



D

(1) $C < B < A < D$

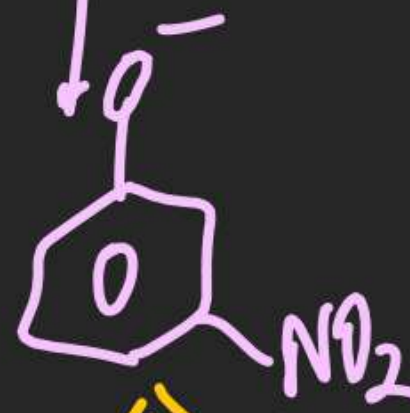
(2) $B < C < D < A$

(C) $D < A < C < B$

(D) $B < C < A < D$



\downarrow
 \downarrow NO₂



\downarrow
 \downarrow NO₂



\uparrow
 \uparrow OMe

K_a

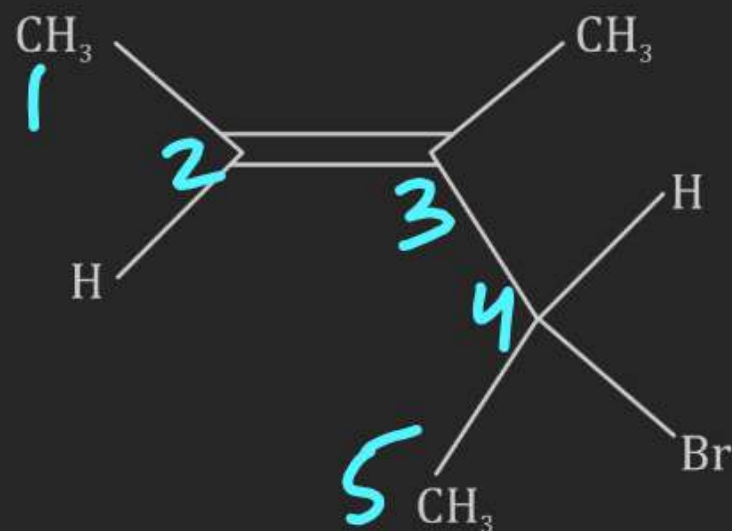
pK_a

$B > C > A > D$

$D > A > C > B$

4. What is the IUPAC name of the following compound?

[9 Jan 2019]

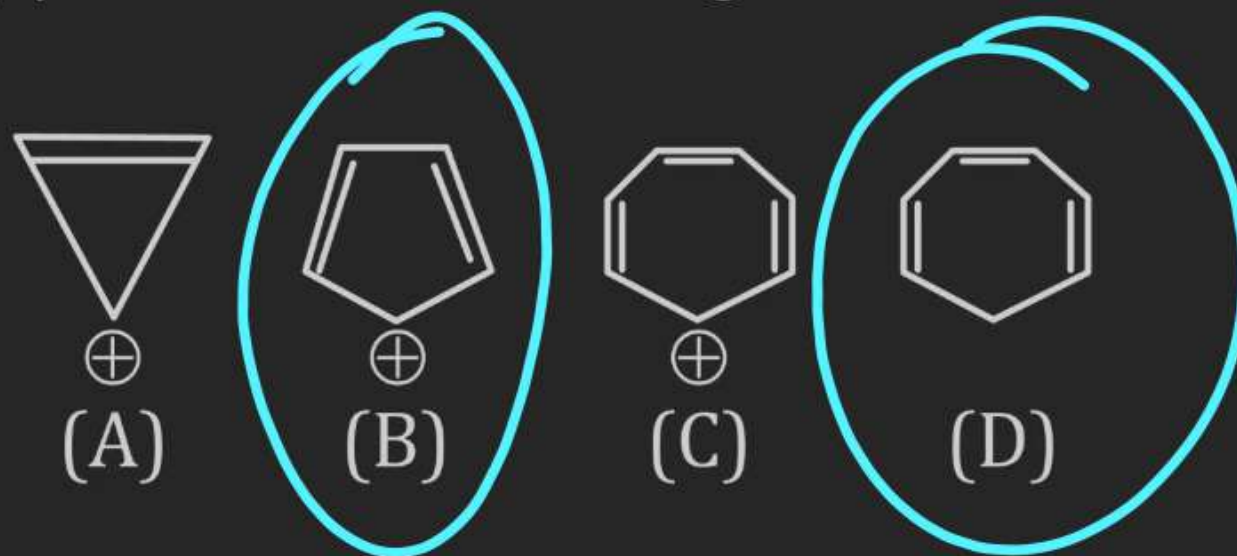


- (A) 3-Bromo-1, 2-dimethylbut-1-ene
(B) 3-Bromo-3-methyl-1, 2-dimethylprop-1-ene
(C) 2-Bromo-3-methylpent-3-ene
(D) 4-Bromo-3-methylpent-2-ene

Am

5. Which compound (s) out of the following is/are not aromatic?

[11 Jan 2019]



(A) (B), (C) and (D)

(B) (C) and (D)

(C) (B)

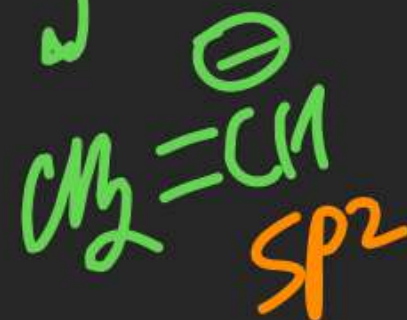
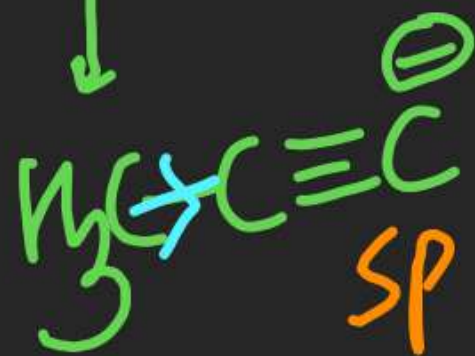
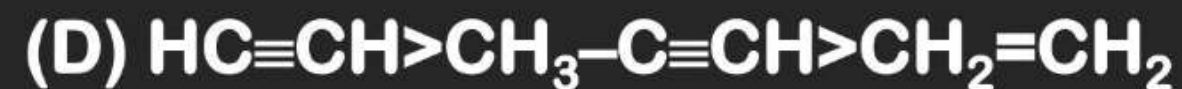
(D) (A) and (C)

Amo

8. The correct order for acid strength of compounds

$\text{CH}\equiv\text{CH}$, $\text{CH}_3-\text{C}\equiv\text{CH}$ and $\text{CH}_2=\text{CH}_2$ is as follows:

[12 Jan. 2019]



1 > 2 > 3