

LIVE

# GENERAL ORGANIC CHEMISTRY Part-2

for JEE-MAIN

One Shot

4:00 PM Today 🔥

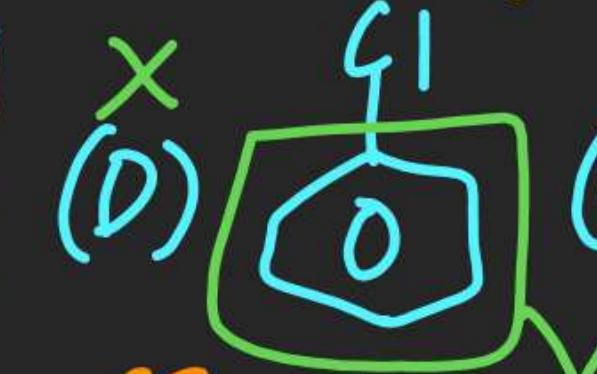
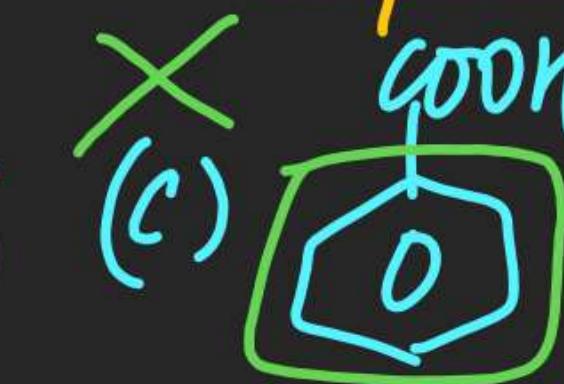
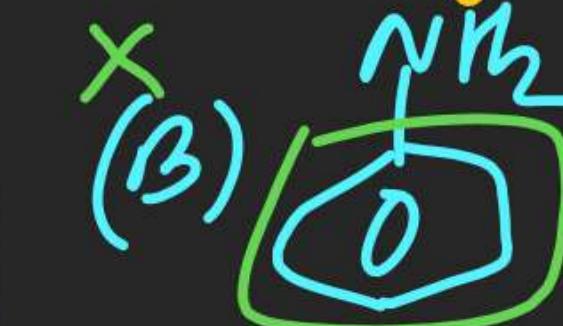
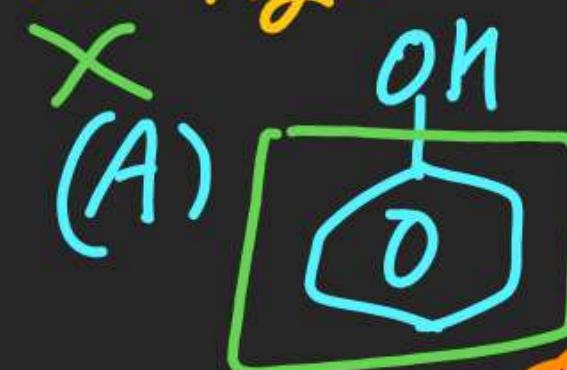
By SKM Sir

A  
pni Kaksha



(#) Which of the following has highest solubility

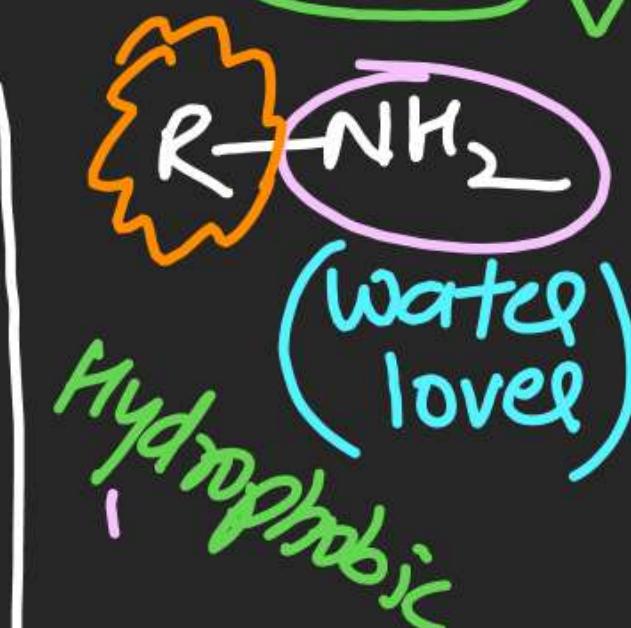
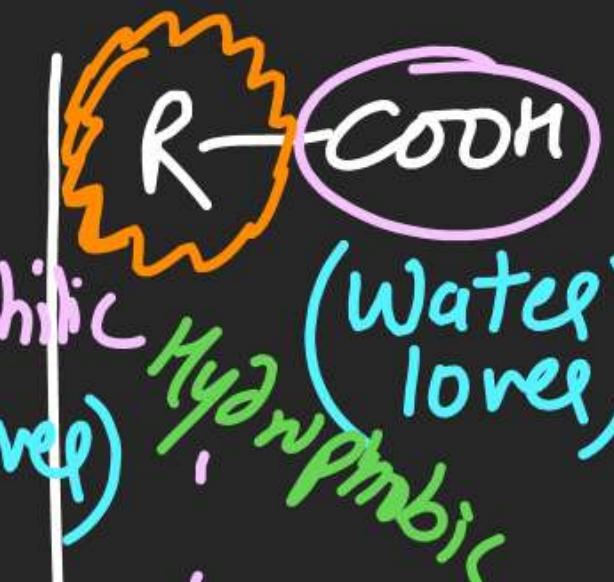
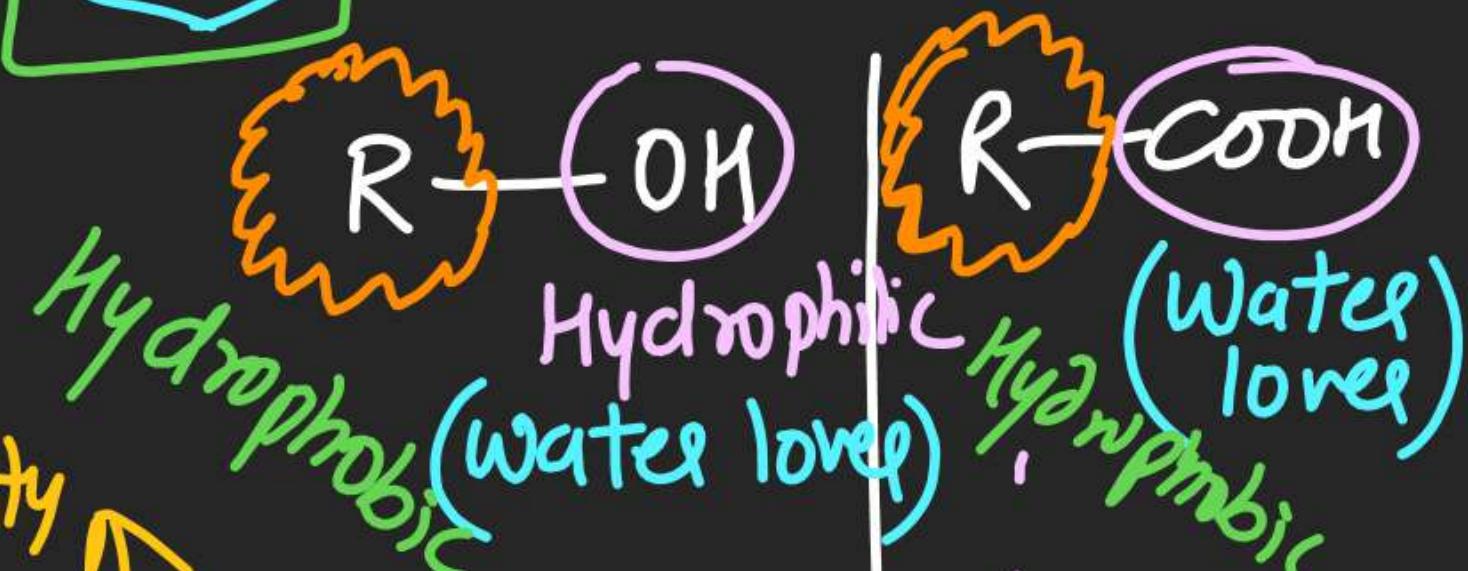
in  $H_2O$



(E) N.O.T

Solubility

Solubility



Unsat  
Unsat-Unsat  
Unsat-Unsat-Unsat  
C-C-C-C-En  
C-C-C-C-En

Covalent  
Compound  
here  
non  
soluble  
in  $H_2O$



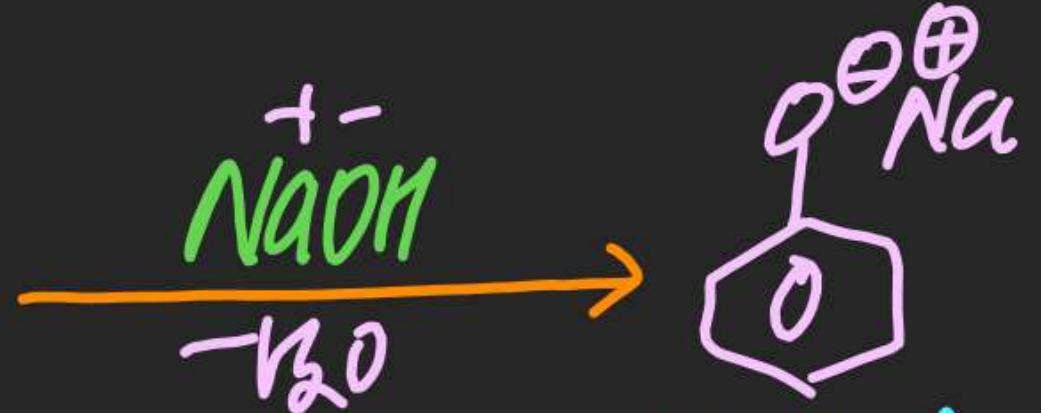
Soluble in Ether



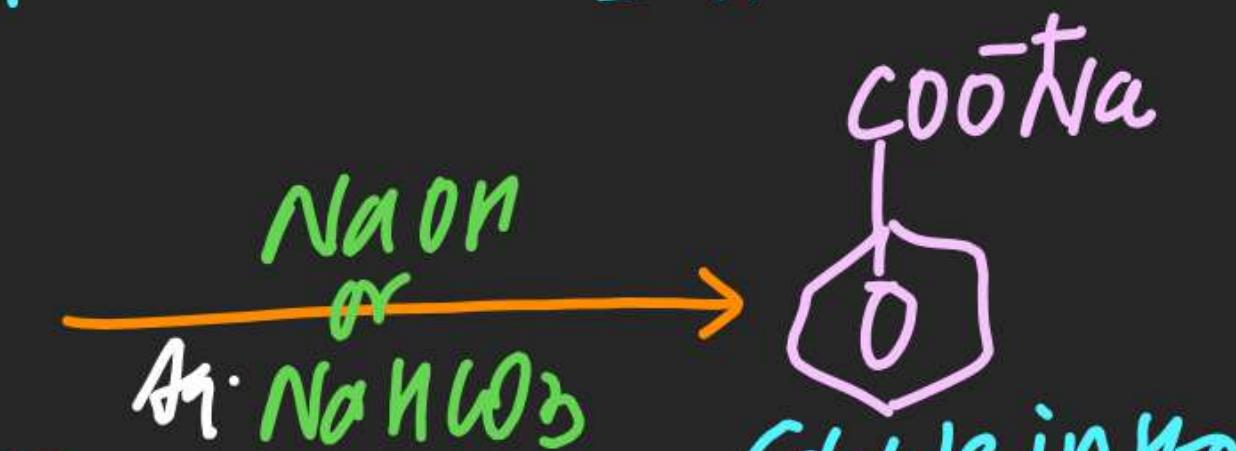
Soluble in Ether



Soluble in Ether



Soluble in  $H_2O$

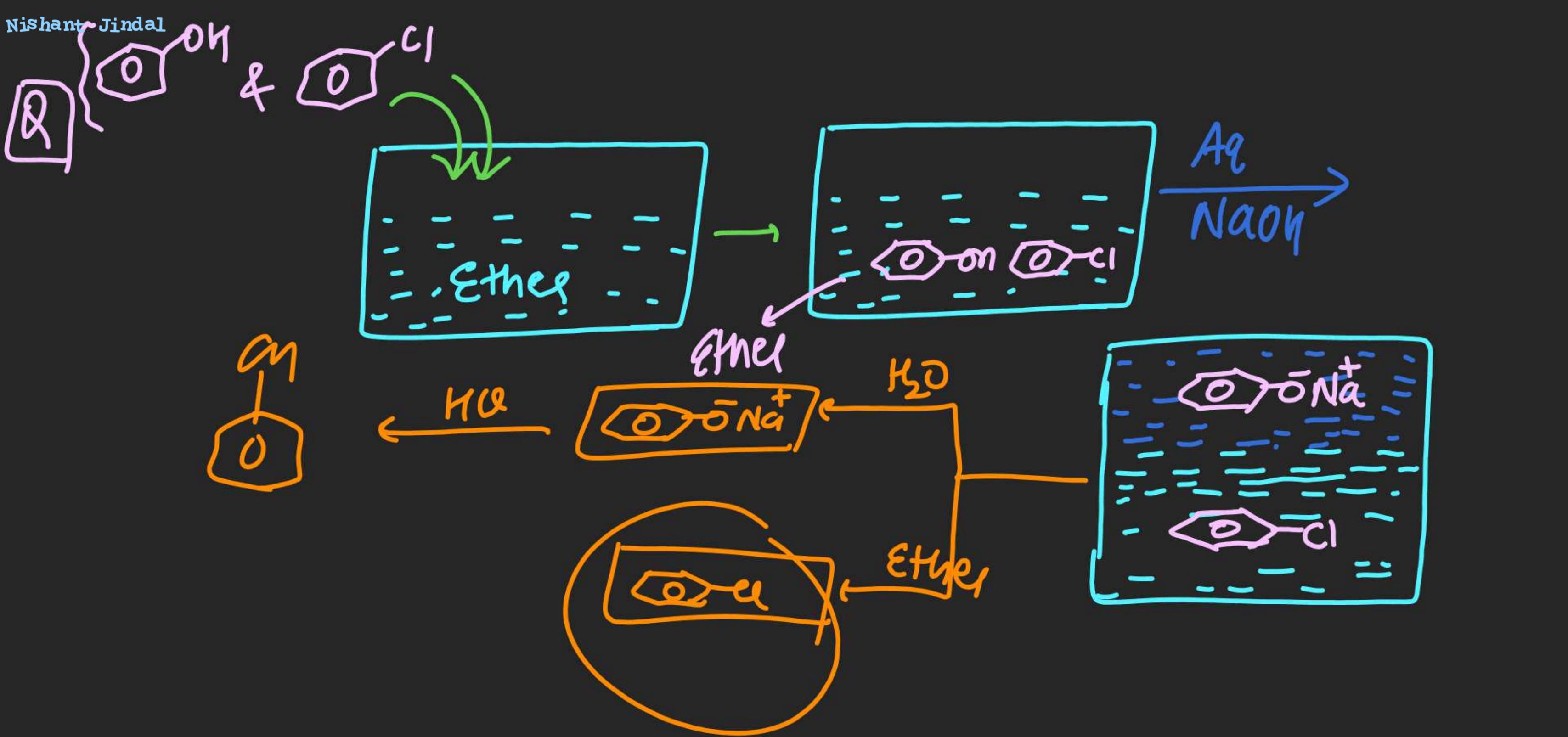


Soluble in  $H_2O$

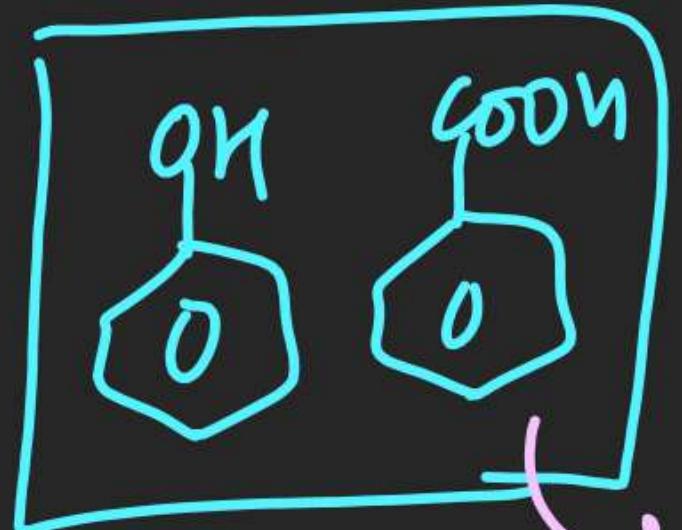


(Soluble in  $H_2O$ )

Ionic  
Compound  
soluble in  
 $H_2O$   
improves  
hydrophilicity  
of hydrophobic  
part

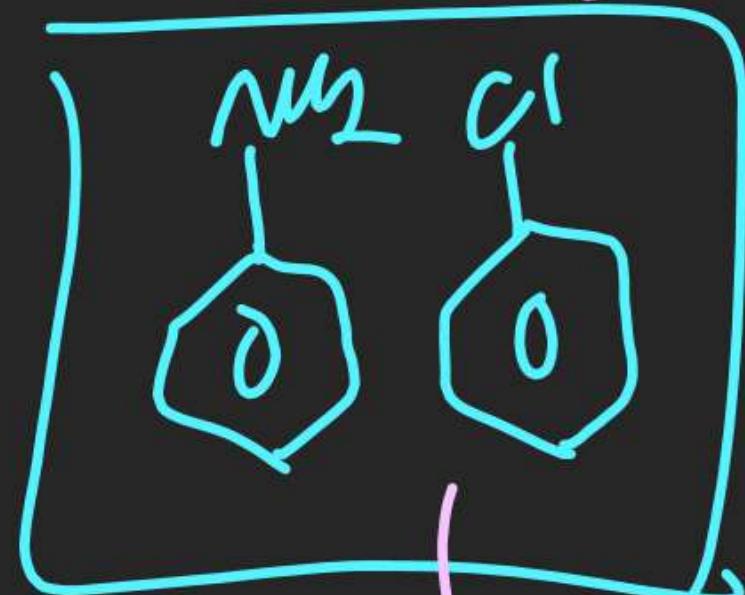


Q



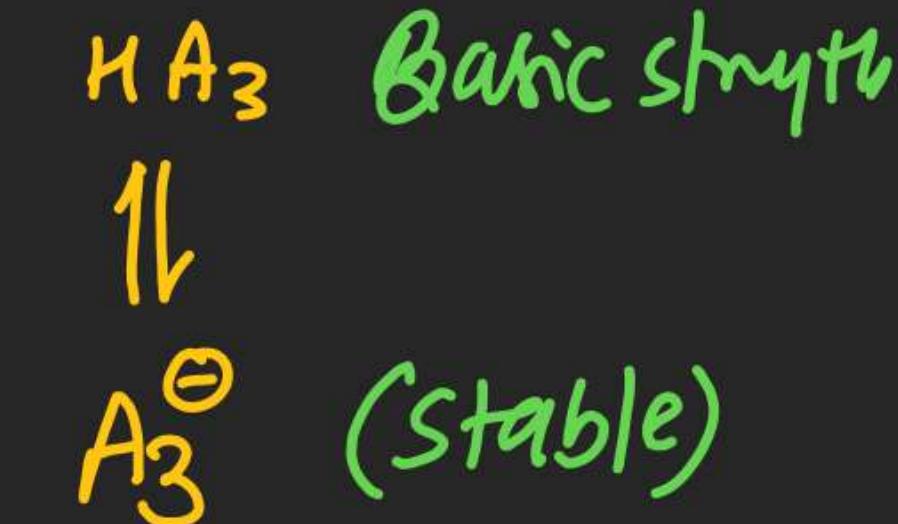
Ester

Q



Amer

Q



वैसिक Strength  
निकालने का  
प्रतीक

(a) Aliphatic Amine > Aromatic Amine

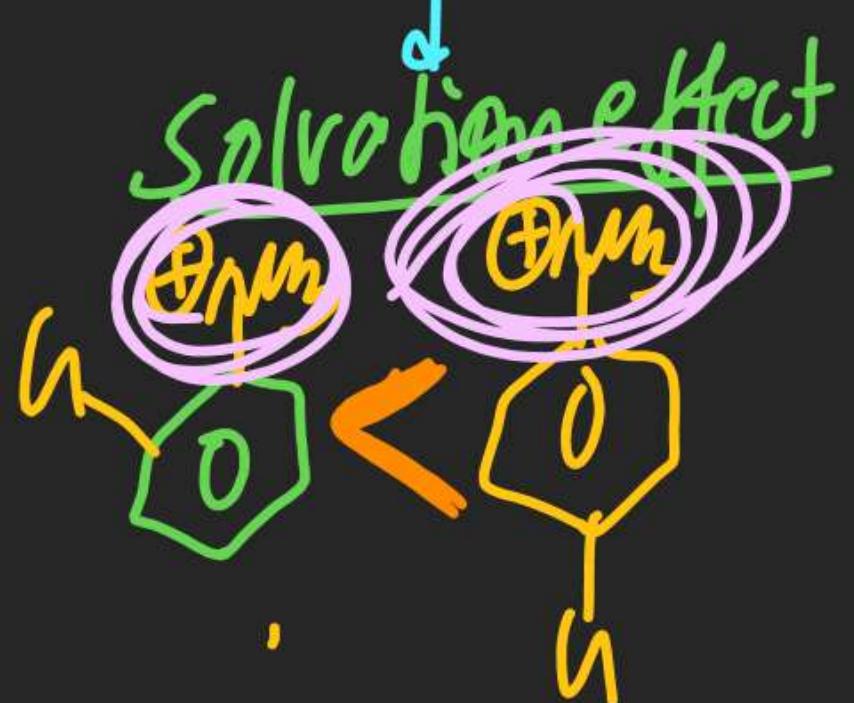
(b) localised > delocalised  
lone pair lone pair

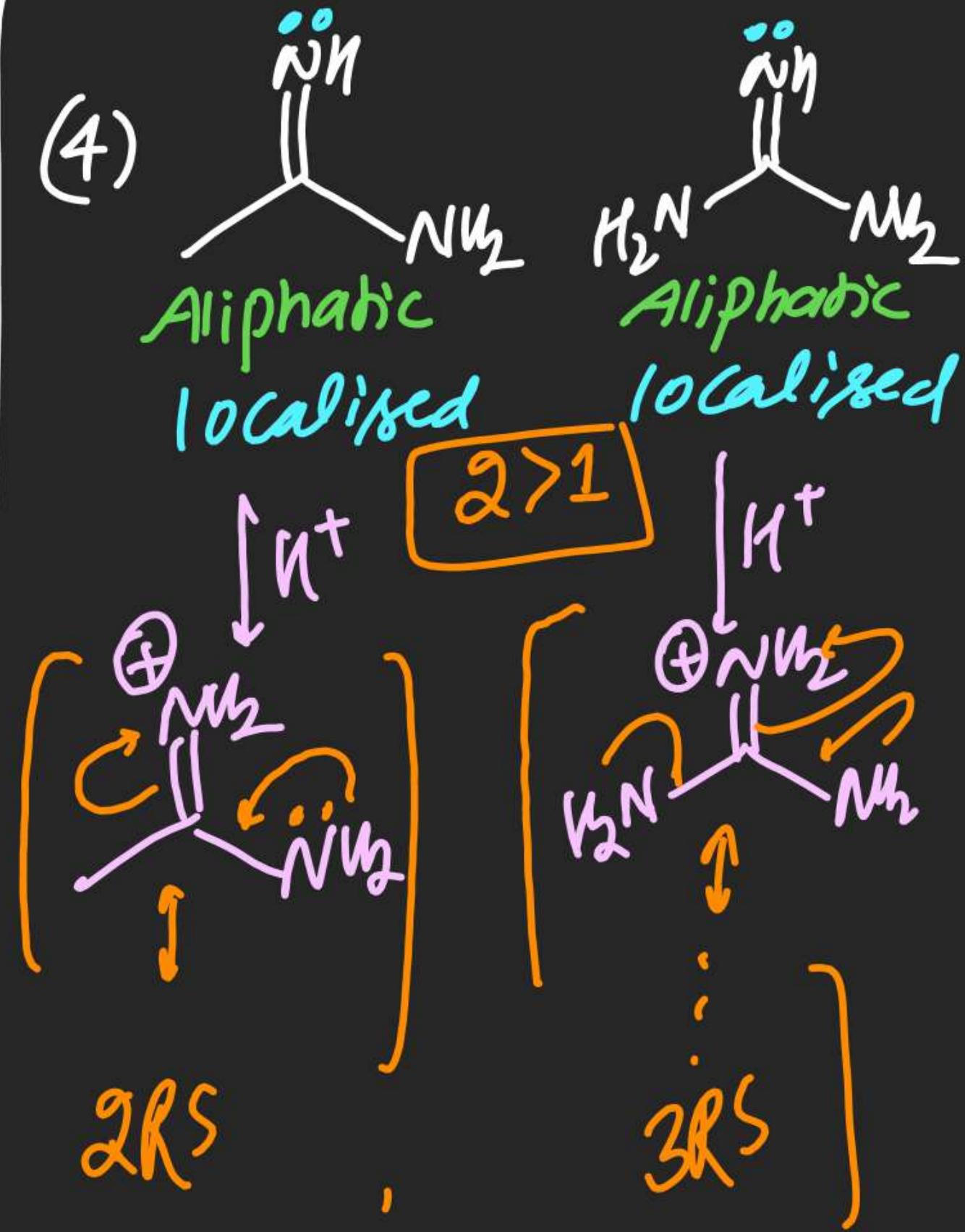
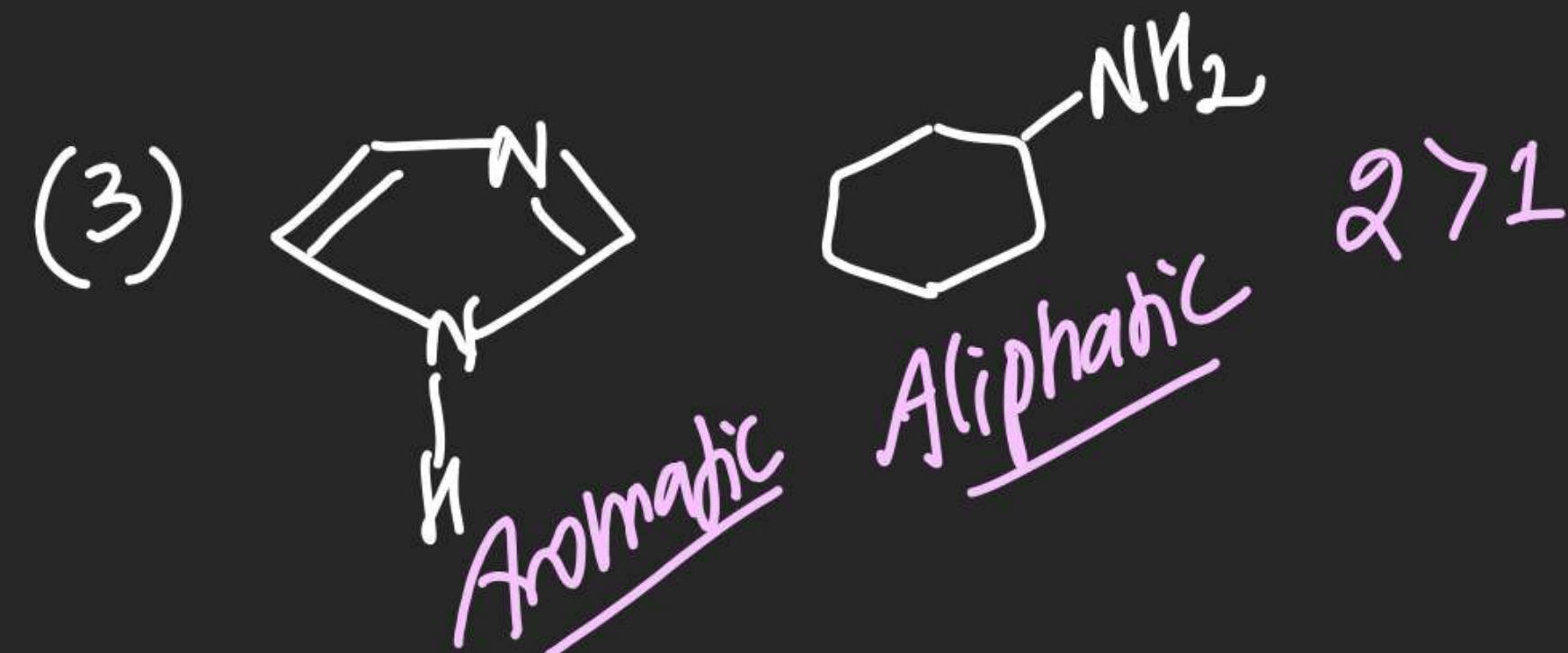
(c) Stability of C-Acid

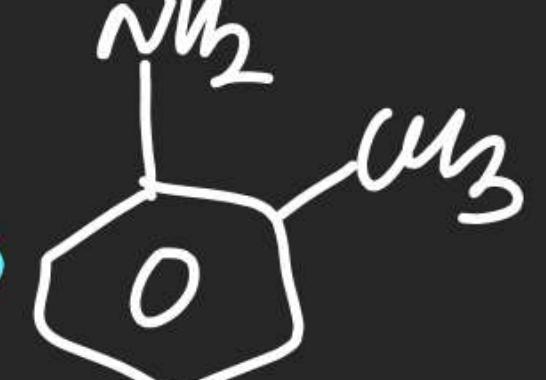
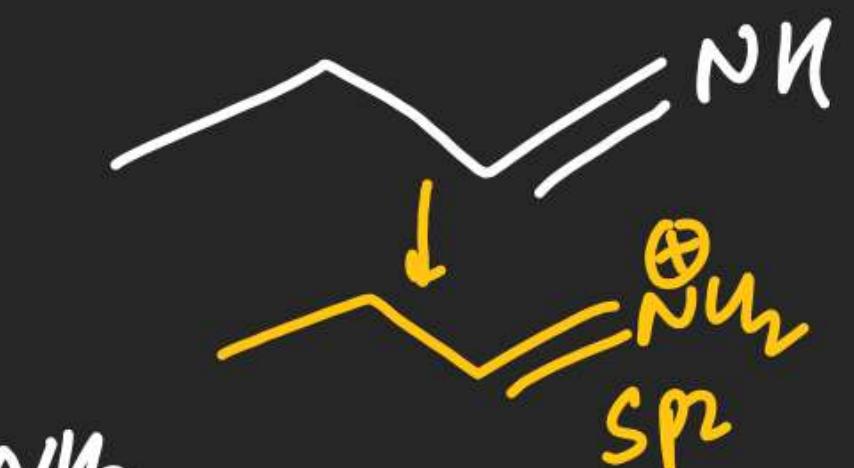
By Resonance:

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

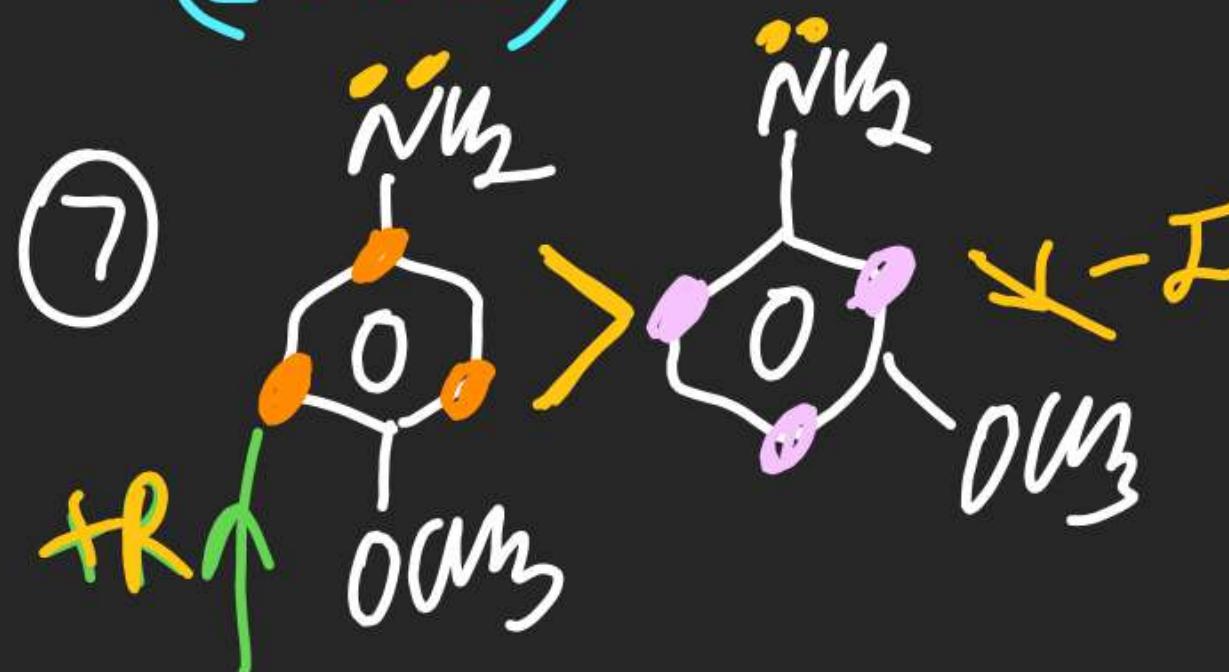
(d) EDG > EWG



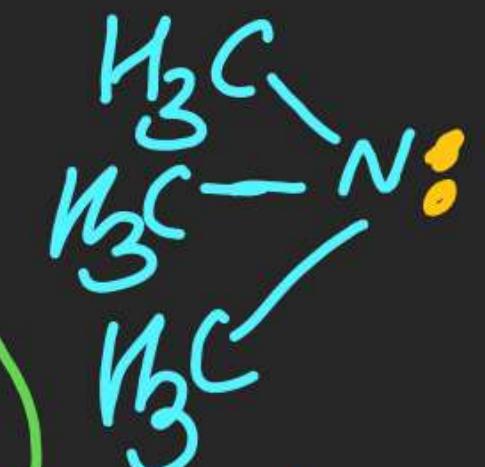
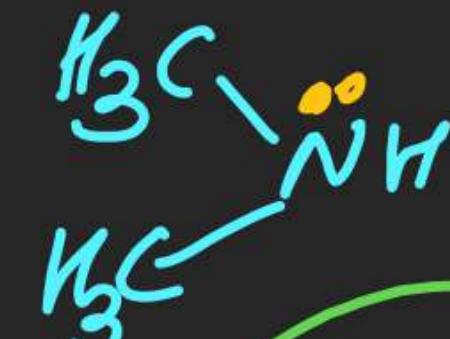




(1 > 2 > 3)

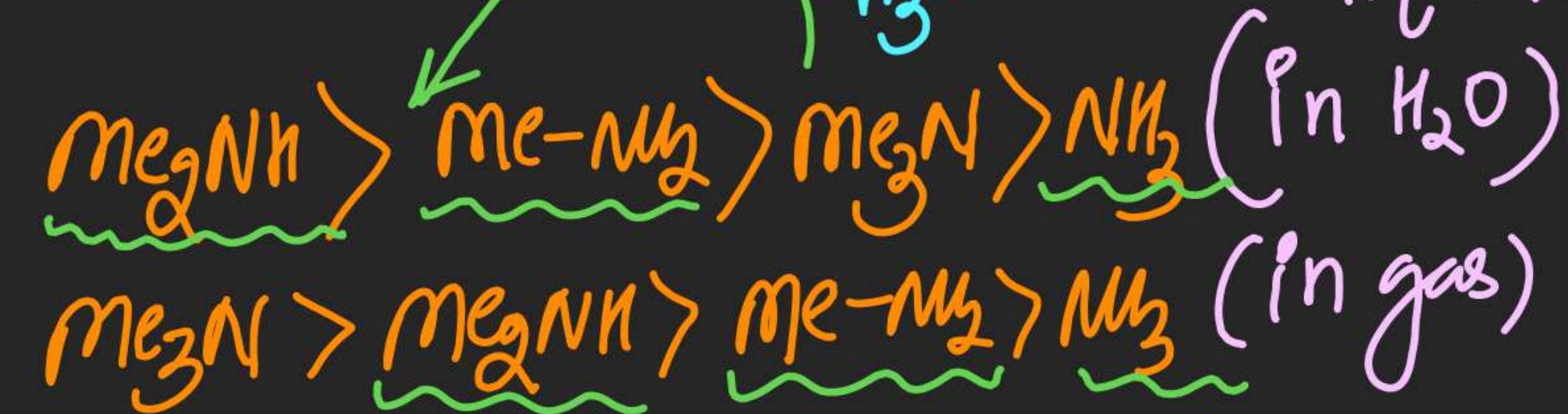


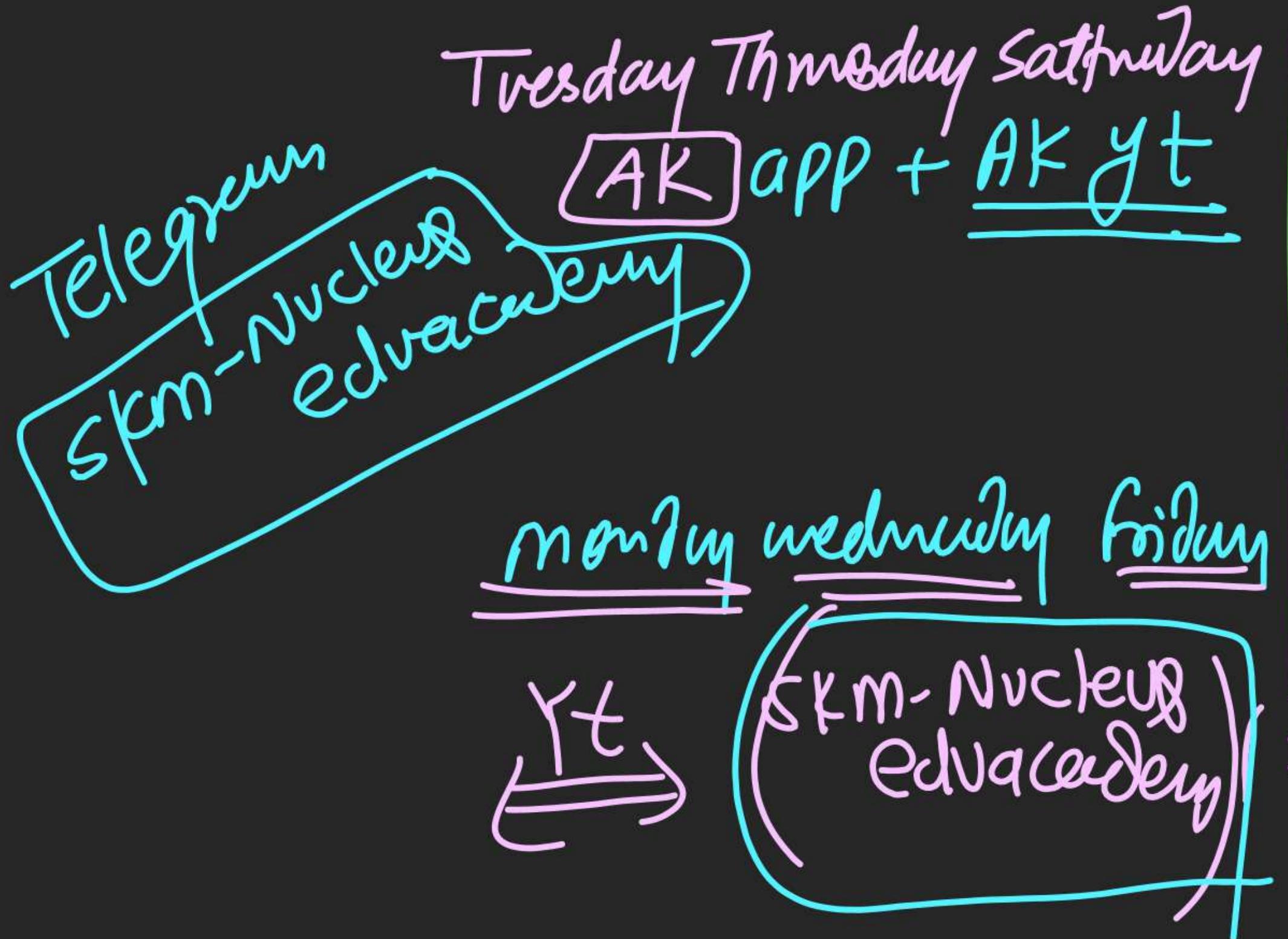
more stable



Aq. medium

Basic strength:





4 pm - 5:30 pm  
One shot + Question  
Solving

Aromatic (Aromatic  
sheet  
EX-1 & 2)

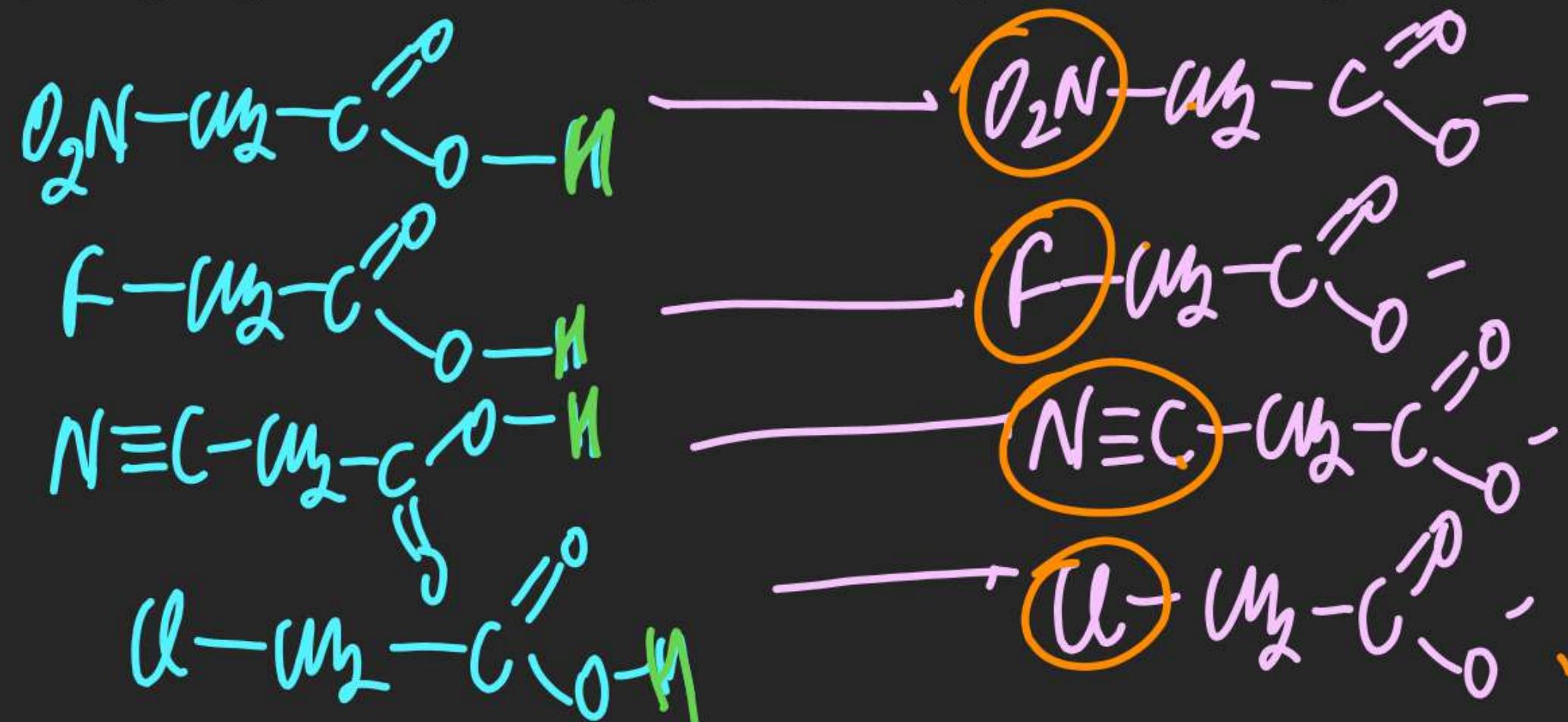
Mains (9:30 pm  
- 10:30 pm)  
PYQ

10 + 10) + 5 SKM

1. The correct decreasing order for acid strength is:

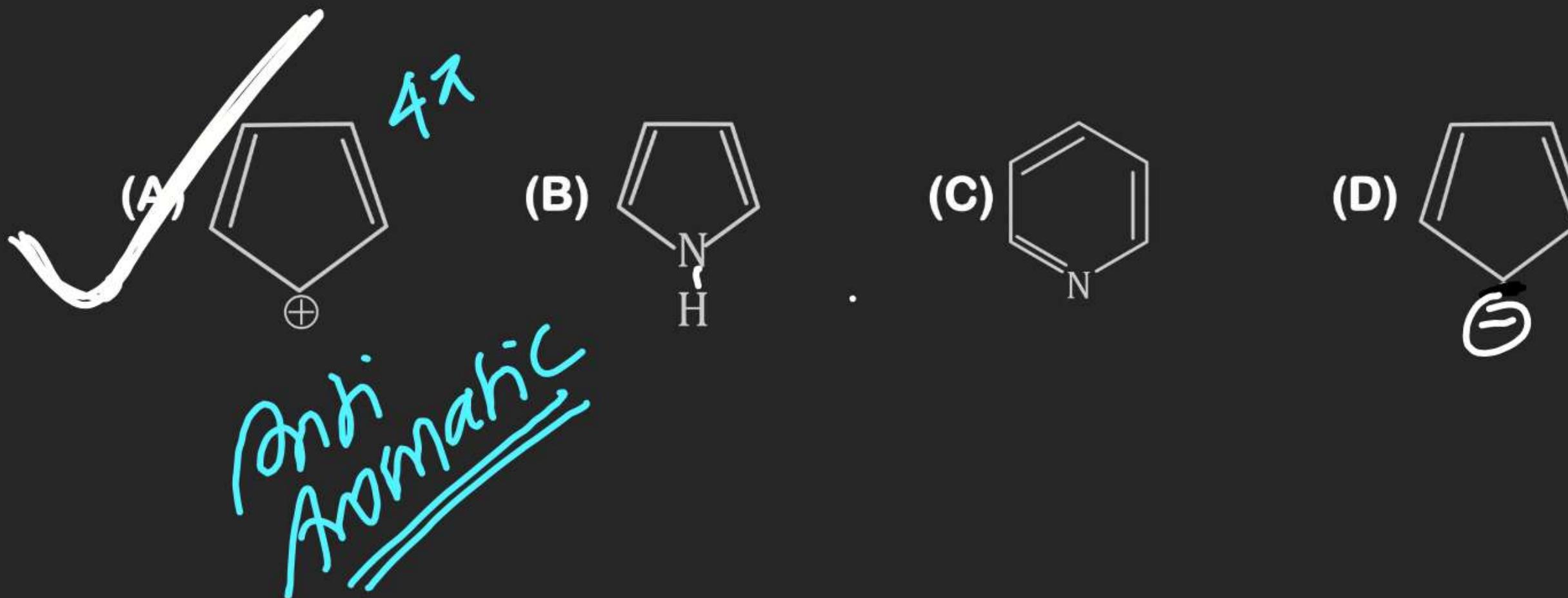
[9 Jan 2019]

- (A)  $\text{NO}_2\text{CH}_2\text{COOH} > \text{FCH}_2\text{COOH} > \text{CNCH}_2\text{COOH} > \text{ClCH}_2\text{COOH}$
- (B)  $\text{FCH}_2\text{COOH} > \text{NCCH}_2\text{COOH} > \text{NO}_2\text{CH}_2\text{COOH} > \text{ClCH}_2\text{COOH}$
- (C)  $\text{CNCH}_2\text{COOH} < \text{O}_2\text{NCH}_2\text{COOH} > \text{FCH}_2\text{COOH} > \text{ClCH}_2\text{COOH}$
- Ans* (D)  $\text{NO}_2\text{CH}_2\text{COOH} > \text{NCCH}_2\text{COOH} > \text{FCH}_2\text{COOH} > \text{ClCH}_2\text{COOH}$



2. Which of the following compounds is not aromatic?

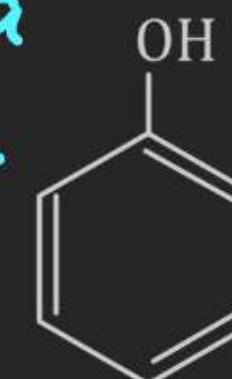
[9 Jan 2019]



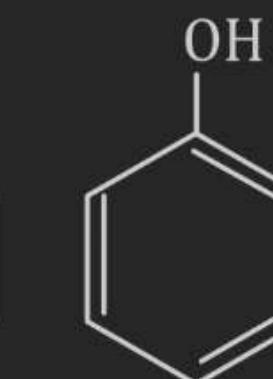
3. The increasing order of the  $pK_a$  values of the following compounds is:

Acidic strength  $\alpha \frac{1}{pK_a}$

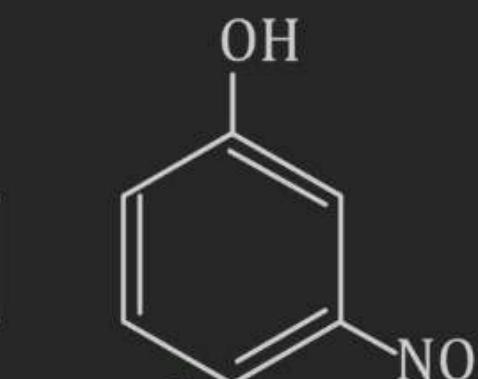
$$\alpha \frac{1}{pK_a}$$



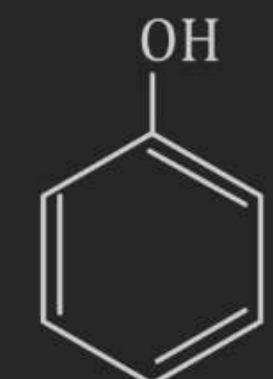
A



B



C



D

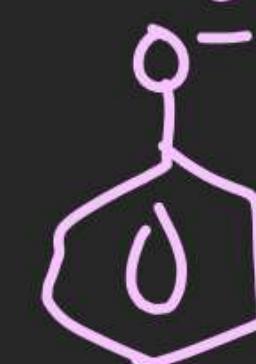
[10 Jan 2019]

(1) C < B < A < D

(2) B < C < D < A

(3) D < A < C < B

(4) B < C < A < D



$\delta^-$

$\delta^-$



$\delta^-$

$\delta^-$



$\delta^-$



$\delta^-$

$K_a$

$K_a$

$K_a$

$K_a$

$K_a$

$K_a$

$K_a$



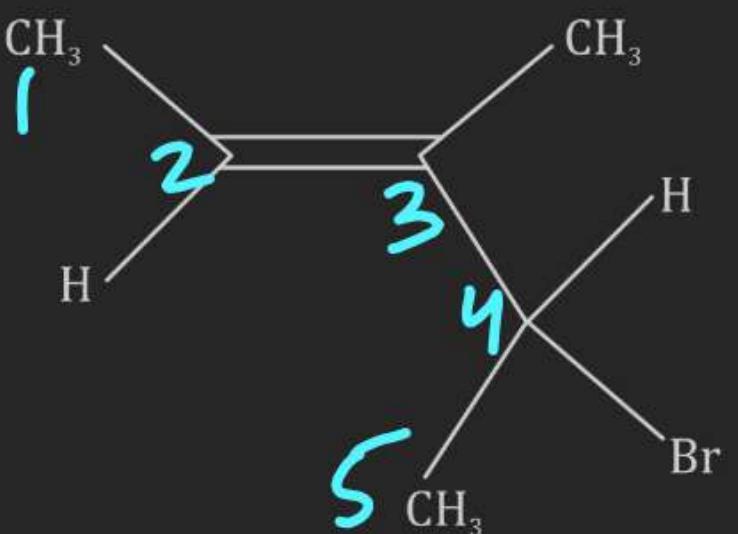
$A > B > C > D$

$B > C > A > D$

$D > A > C > B$

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

[9 Jan 2019]

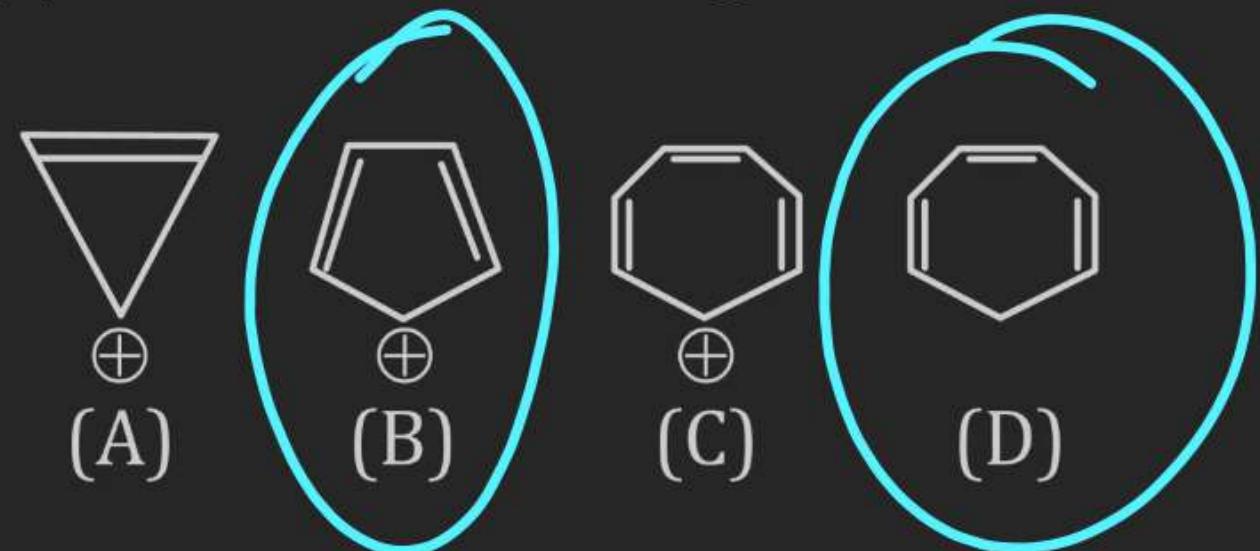


- (A) 3-Bromo-1, 2-dimethylbut-1-ene
- (B) 3-Bromo-3-methyl-1, 2-dimethylprop-1-ene
- (C) 2-Bromo-3-methylpent-3-ene
- (D) 4-Bromo-3-methylpent-2-ene

Ans:

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)



### 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]

(A)  $\text{CH}\equiv\text{CH} > \text{CH}_2=\text{CH}_2 > \text{CH}_3-\text{C}\equiv\text{CH}$

(B)  $\text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}\equiv\text{CH} > \text{CH}_2=\text{CH}_2$

(C)  $\text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}_2=\text{CH}_2 > \text{HC}\equiv\text{CH}$

(D)  $\text{HC}\equiv\text{CH} > \text{CH}_3-\text{C}\equiv\text{CH} > \text{CH}_2=\text{CH}_2$

