

DPP-03

SOLUTION

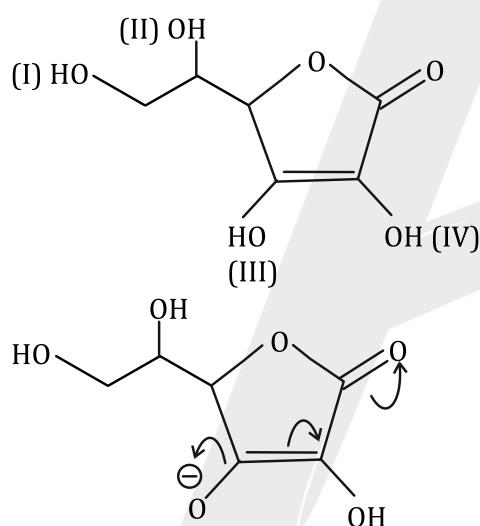
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1. Acidic strength order = (D) > (B) > (A) > (C)
 ↓ ↓ ↓ ↓
 (15.5) (9.95) (4.76) (-3)

Correct Ans.

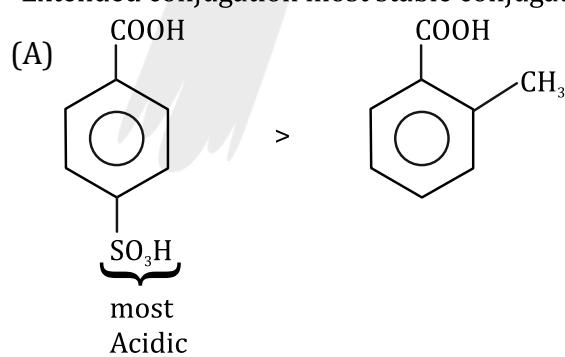
- (A) → (iii)
- (B) → (ii)
- (C) → (i)
- (D) → (iv)

2.

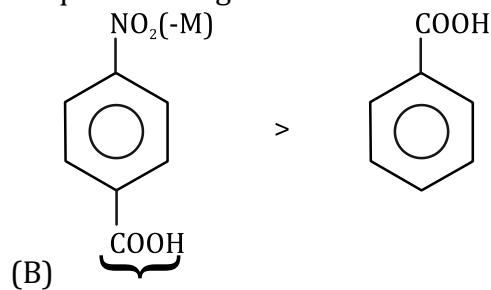


Extended conjugation most stable conjugate Base

3.



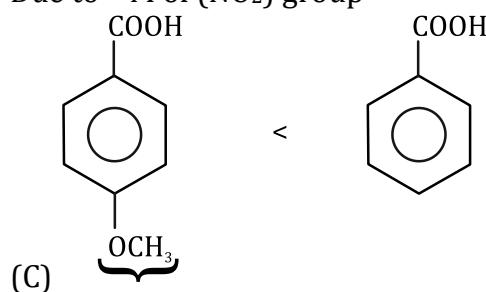
3 eq Resonating structures



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Most Acidic

Due to $-M$ of (NO_2) group



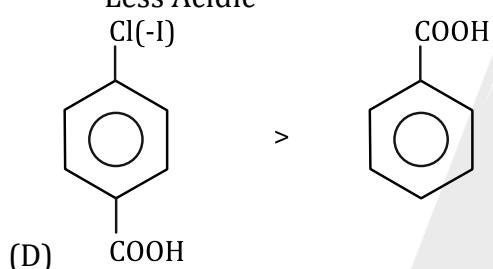
correct order

Due $(+M)$

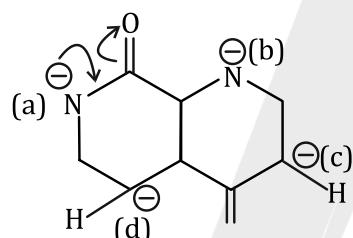
Of $(O-CH_3)$

Less Acidic

$Cl(-I)$



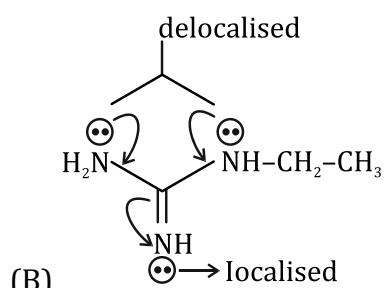
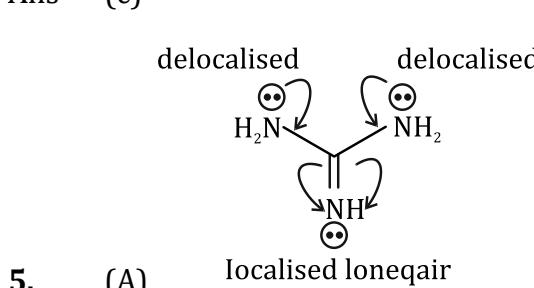
Most acidic



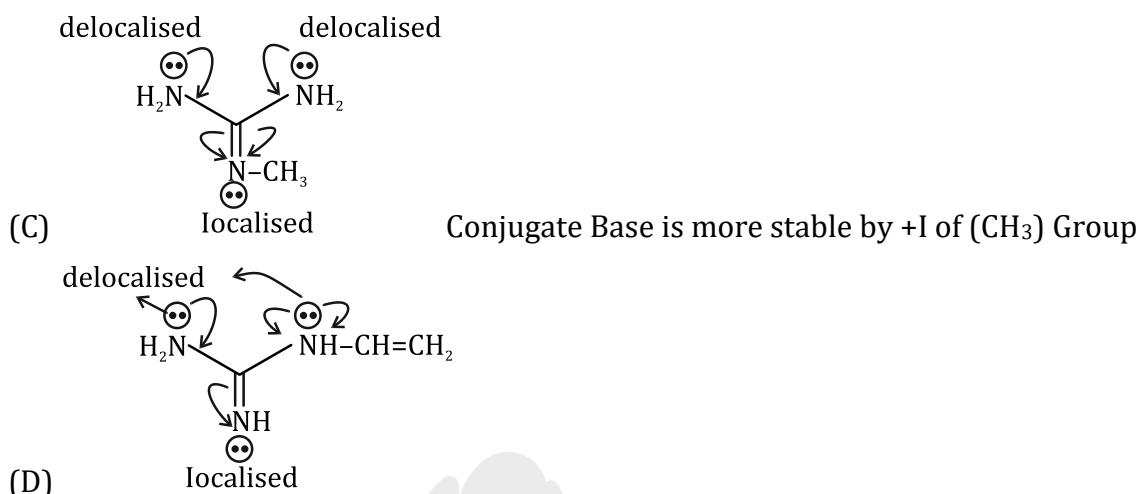
4.

- (a) Resonance stabilised by $(C = O)$
- (b) Stable by Inductive effect $(+I)$
- (c) Resonance stabilized by $(C = O)$
But $-ve$ charge on less EN atom (C).
- (d) Stable by $(-I)$ effect.
Correct order = a > b > c > d

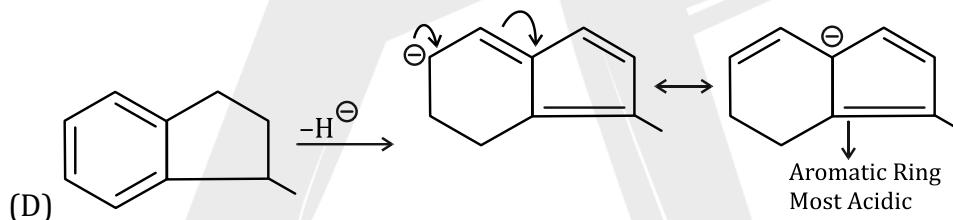
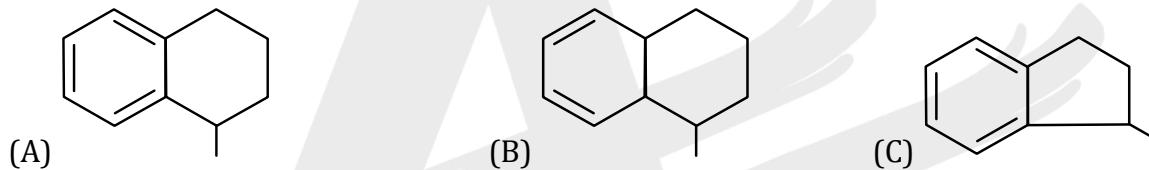
Ans (c)



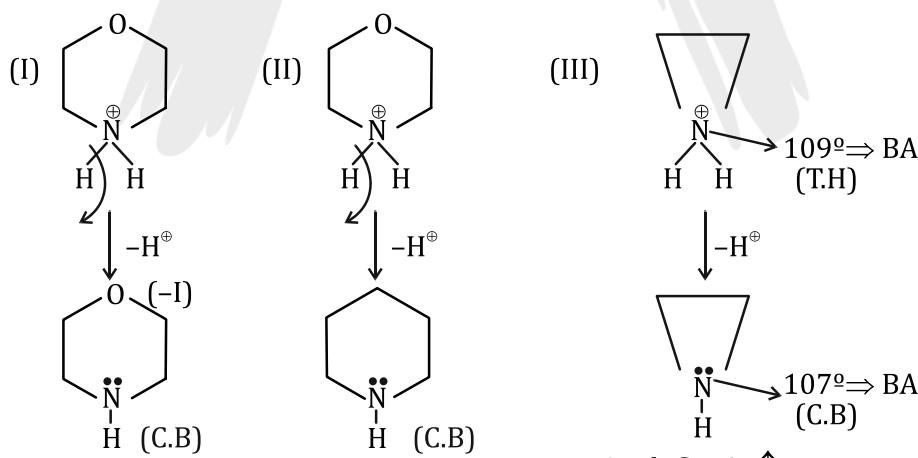
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6. Acidic strength



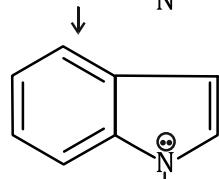
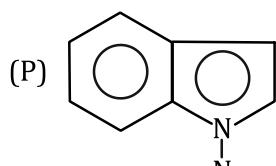
7. Acidic Strength order



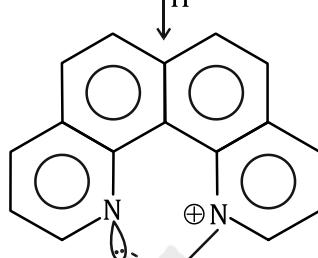
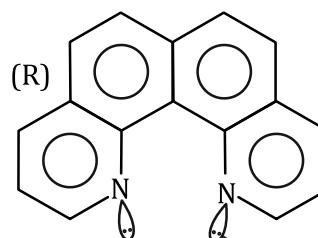
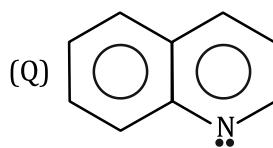
Acidic Strength \Rightarrow III > I > II

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Ans. (A)



Lone pair of (N) is conjugated



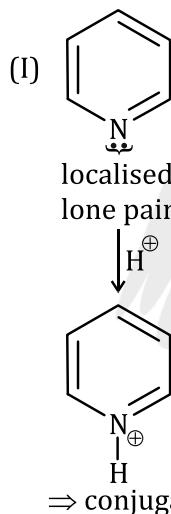
⇒ due to hydrogen bonding
in its conjugate Base
⇒ most Basic

8.

$$R > Q > P$$

Ans. (B)

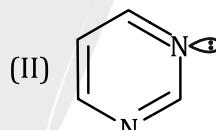
9. Inveasign order fo their Basic strength



localised lone pair

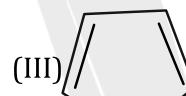


\Rightarrow conjugate Acid

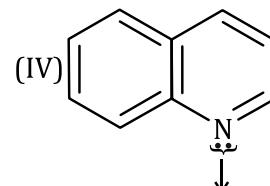


$\downarrow H^+$

conjugate Acid
 $\Rightarrow (-I)$ effect of (N) atom



\Rightarrow delocalised lone pair
 \Rightarrow less Available for H^+ Attack



localised lone pair
But (-I) of more No.
of π Bonds carbon atoms.

\Rightarrow less -I of of double bonded carbon atoms due to in less No.

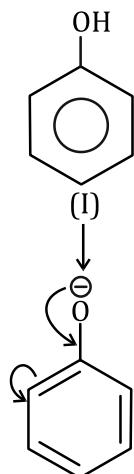
Correct order $\Rightarrow I > IV > II > III$

Ans. (D)

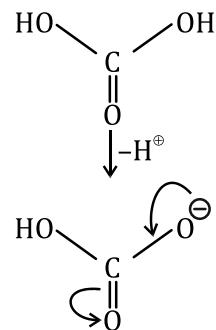


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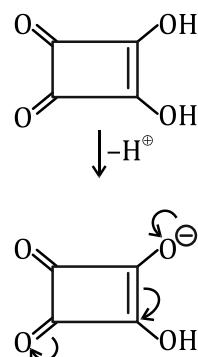
10. Acidic Strength order



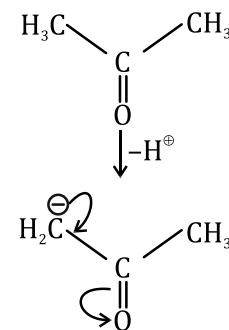
-ve charge on
carbon
unequal R.S



\Rightarrow 2eq R.S.
 \Rightarrow more stable
than (I)



\Rightarrow more delocalised
OH -ve charge
 \Rightarrow most Acidic



\Rightarrow -ve charge on less
EN on (C)atom
 \Rightarrow less Acidic

\Rightarrow III > II > I > IV

Ans. (B)