
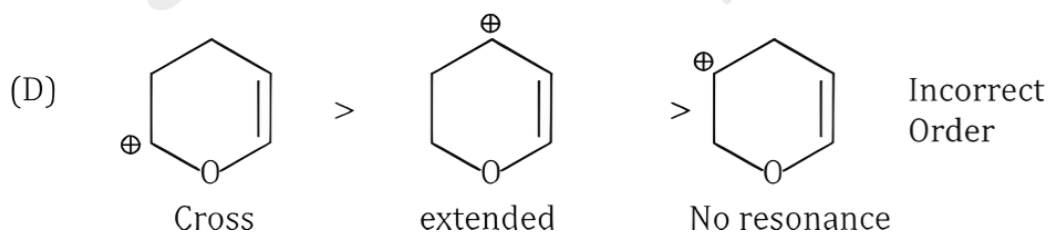
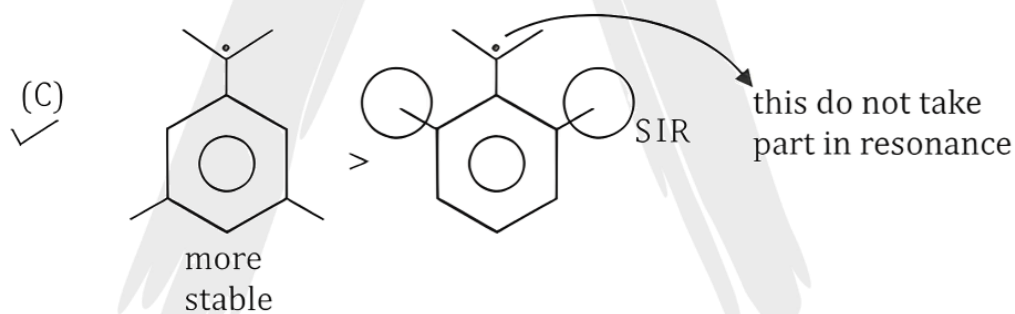
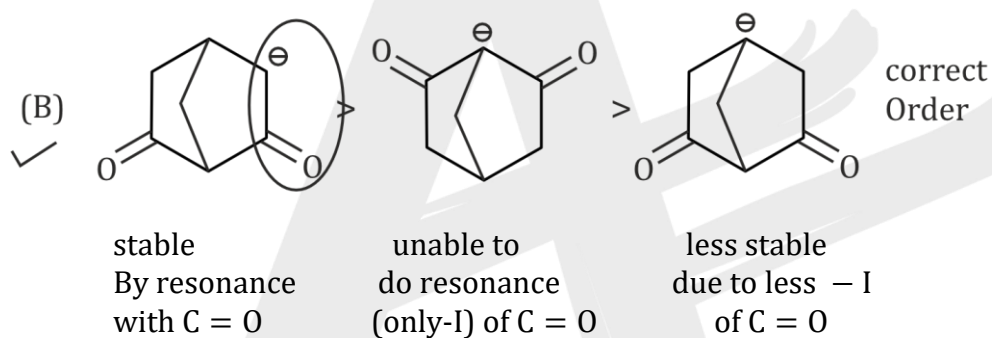
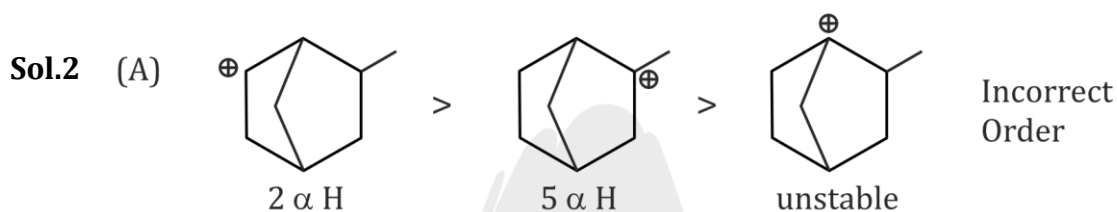
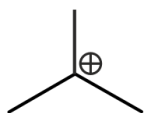


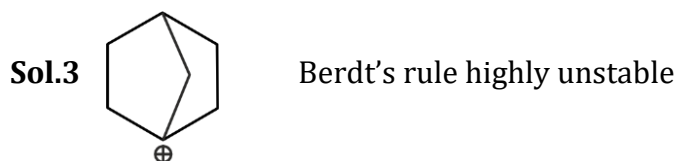
DPP-01  
SOLUTIONS

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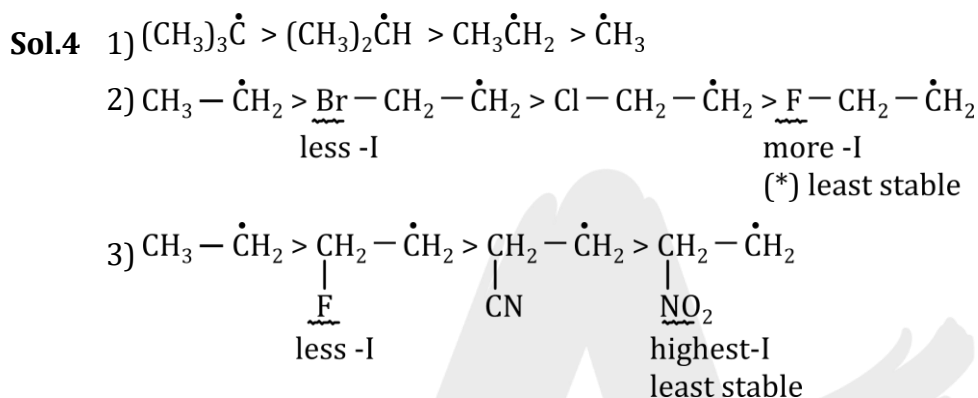
Sol.1 Carbocation and  $sp^2$  hybridized



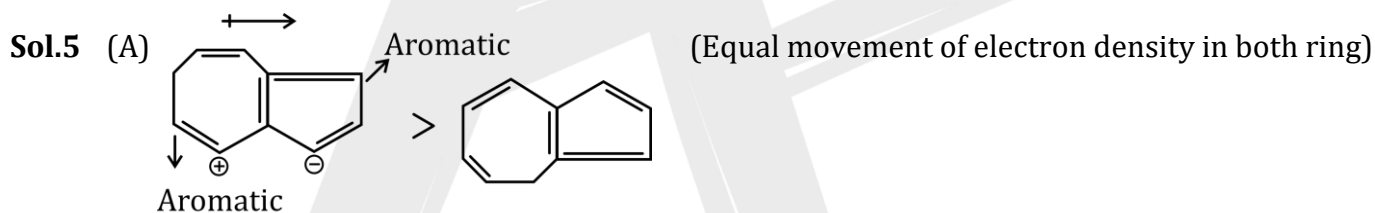
Link to View Video Solution: [Click Here](#)



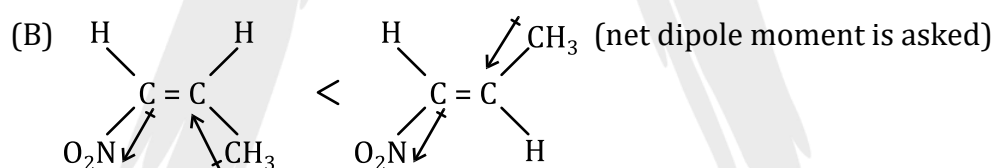
(Planarity never can be attained on Berdt)



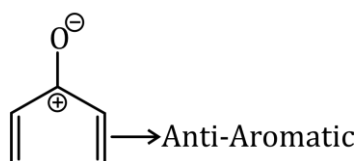
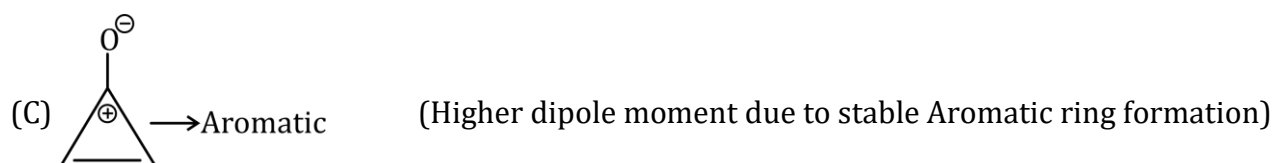
Ans. (D) 1,2 & 3 are correct



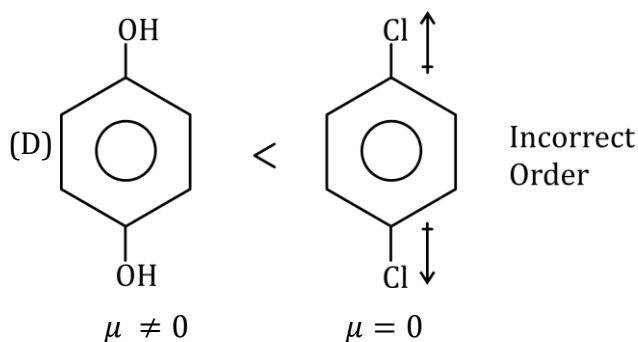
Hence more deployment



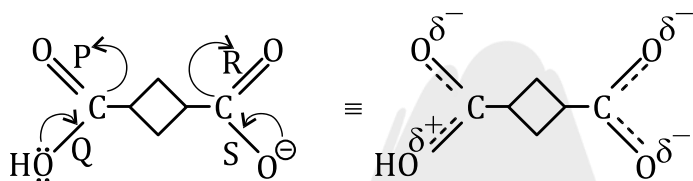
Hence more dipole moment



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Sol.6



P & R → are double bonds So less bond length than Q & S

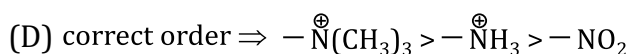
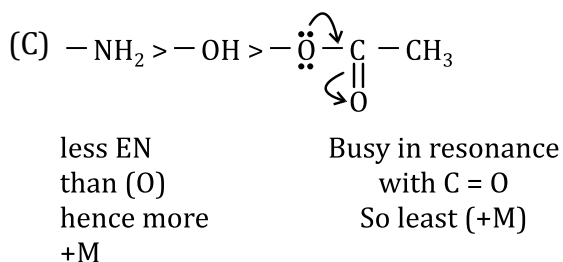
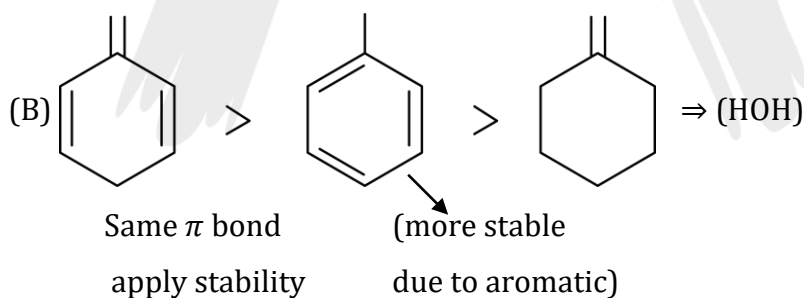
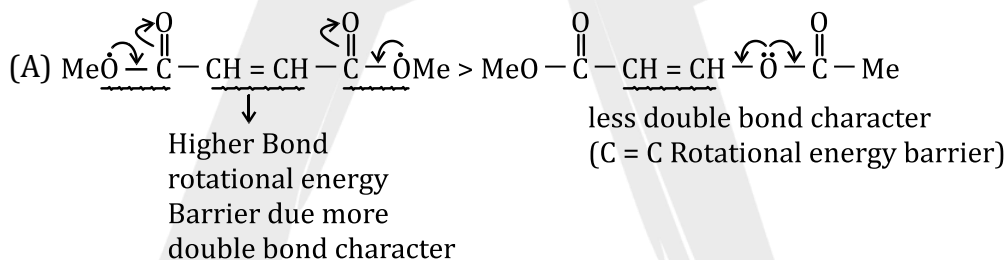
In (S) due to resonance of -I ve change more double bond character on (S)


and (R) & (S) have equal Bond length due to eq. resonance

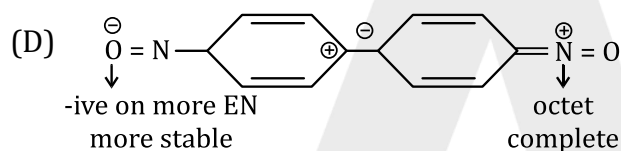
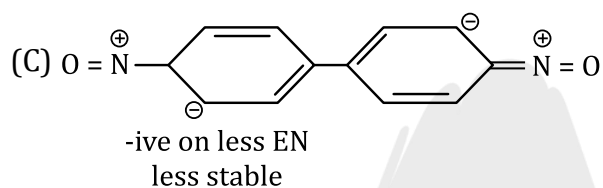
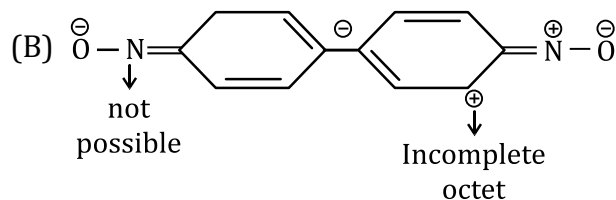
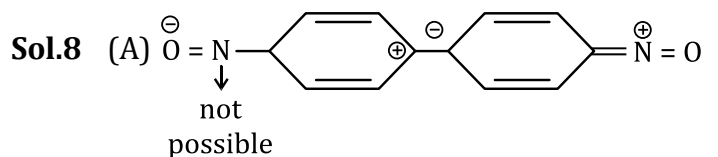
(P) & (Q) have equal Bond length due to unequal resonance

Hence = correct order is  $\Rightarrow Q > R = S > P$

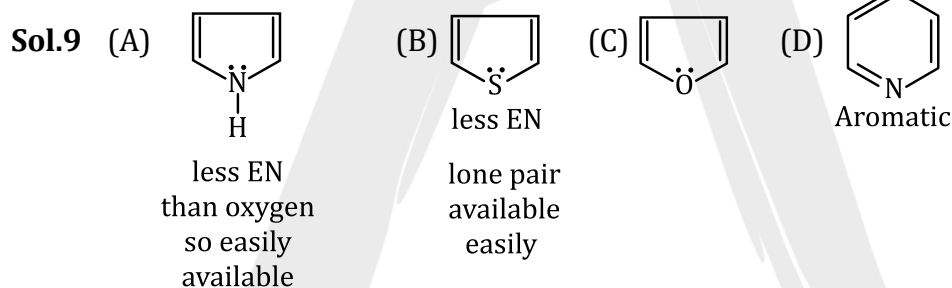
Sol.7



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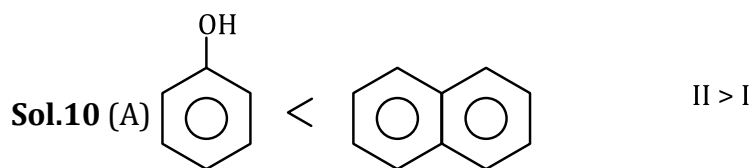


(D) → most stable resonating structure.

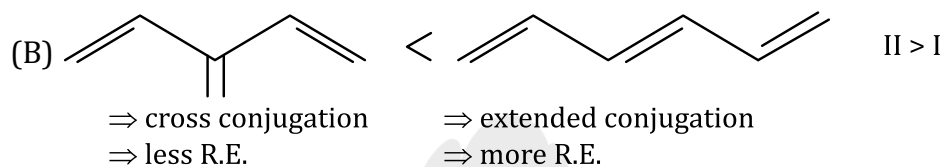


Hence stability order (D > B > A > C)

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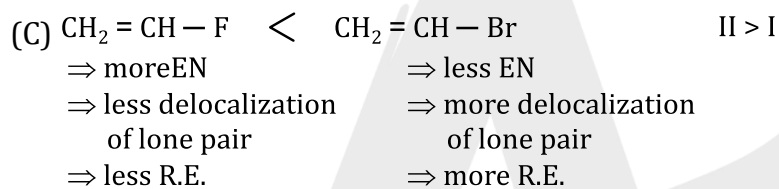


more  
 $\Rightarrow$  no. of Benzenoid ring  
 $\Rightarrow$  more resonance  
 $\Rightarrow$  more R.E.



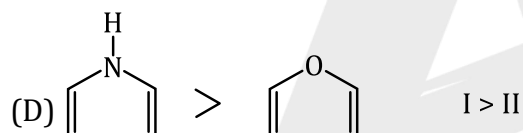
$\Rightarrow$  cross conjugation  
 $\Rightarrow$  less R.E.

$\Rightarrow$  extended conjugation  
 $\Rightarrow$  more R.E.



$\Rightarrow$  more EN  
 $\Rightarrow$  less delocalization  
of lone pair  
 $\Rightarrow$  less R.E.

$\Rightarrow$  less EN  
 $\Rightarrow$  more delocalization  
of lone pair  
 $\Rightarrow$  more R.E.



less EN  
more  
delocalization  
more R.E.