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1. (A)  $\left( \overset{\oplus}{\text{NaOH}}, \overset{\ominus}{\text{NH}_3} \right) \Rightarrow \text{Both are nucleophile}$   
 (B)  $\left( \text{AlCl}_3, \overset{\oplus}{\text{CH}_3} \right) \Rightarrow \text{Both are Electrophiles}$   
 (C)  $\left( \text{Br}_2 \rightarrow \delta^+ \text{Br} - \text{Br} \delta^-, \overset{\ominus}{\text{Cl}} \right) \Rightarrow \text{It Contains both Electrophiles \& Nucleophiles}$   
 (D)  $\left( \overset{\oplus}{\text{Na}}, \text{H}_2\ddot{\text{O}} \right) \Rightarrow \text{Nucleophile}$

cation of alkali metals are not Electrophiles

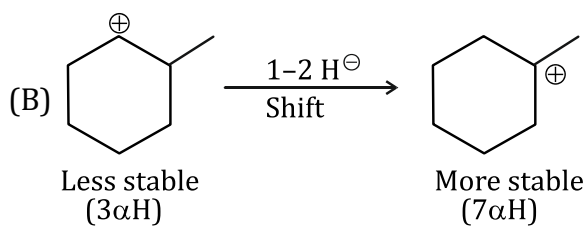
Ans (C)

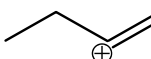
2. (A) (Only one time  $\text{H}^\ominus$  Shift)
- (B) (Two time  $\text{H}^\ominus$  Shift)
- (C) Stable By Ph (resonance)
- $\Rightarrow$  (One Shift is  $\text{H}^\ominus$  Shift)  
 $\Rightarrow$  (Second Shift is methyl Shift)
- (D) Stable by Back Bonding

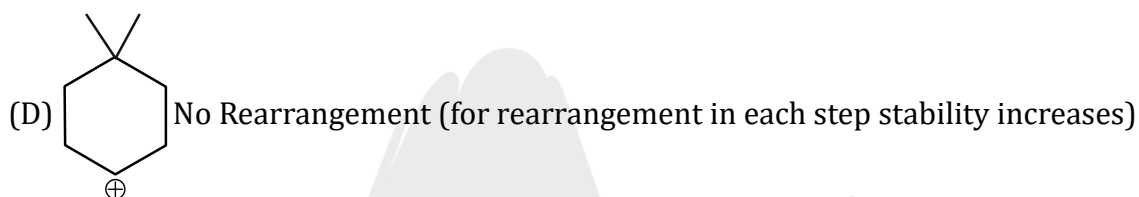
Ans (B)

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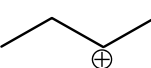
3. (A)  $\text{CH}_3 - \overset{\oplus}{\text{C}} = \text{O}$  this positive charge is in hybrid orbital can't Rearrange

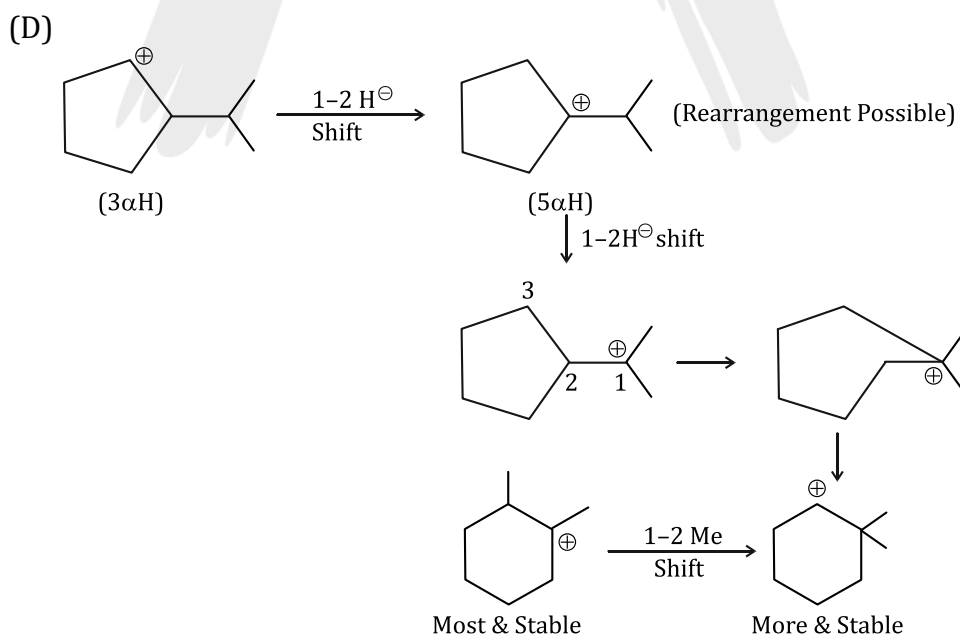
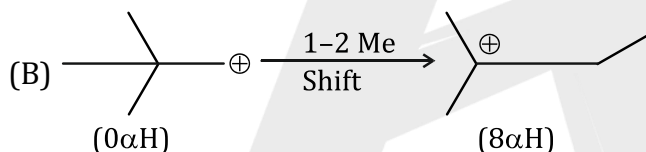


(C)  this positive charge is in hybrid orbital (No Rearrangement)



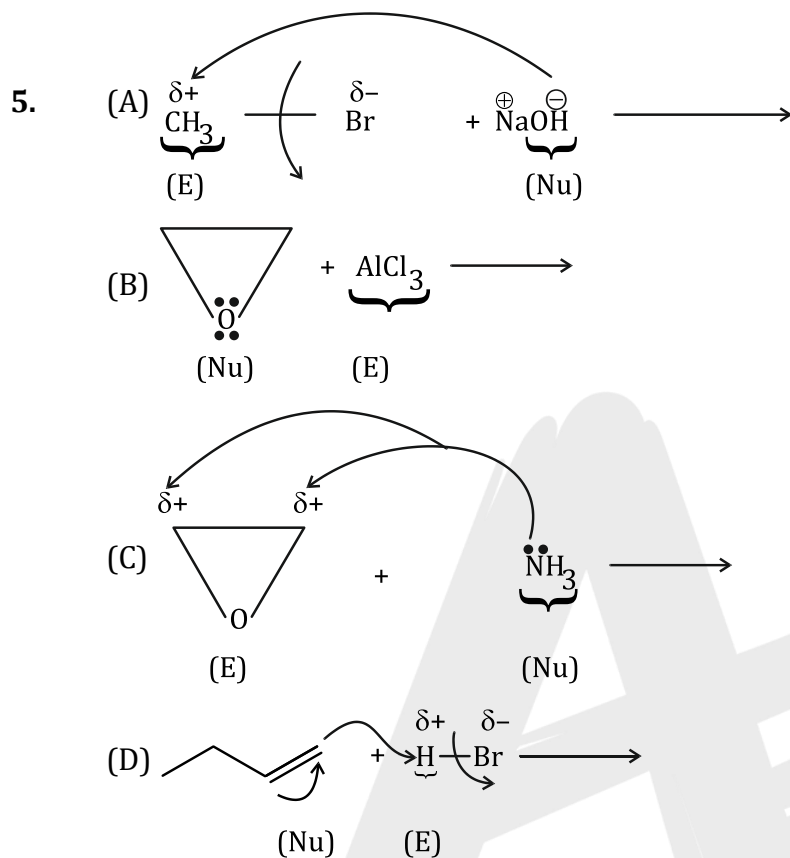
Ans (B)

4. (A)   $\longrightarrow$  No Rearrangement

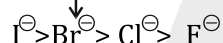
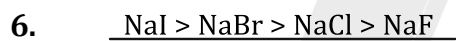


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Ans. (B,D)

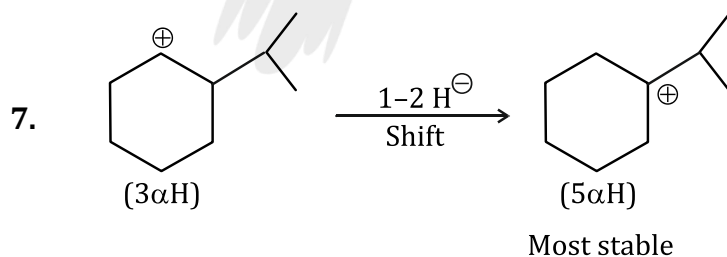


Ans. (B,D)



$\Rightarrow$  Non polar solvent & polar protic solvent

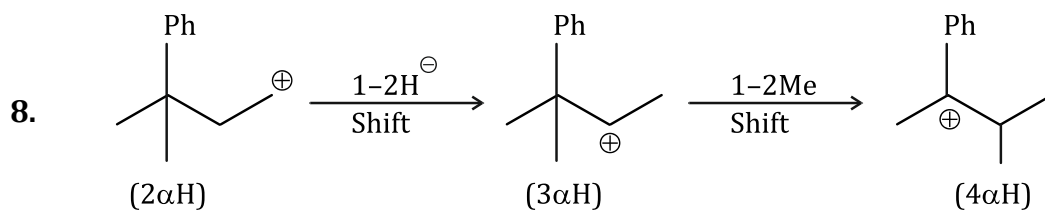
Ans. (A,C)



Only one time it Rearranged

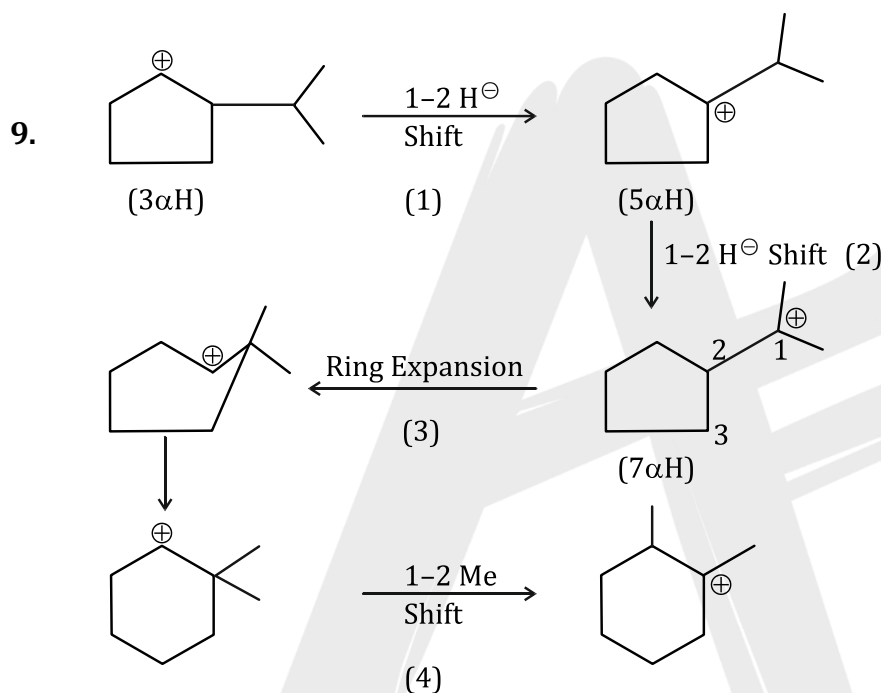
Ans. (1)

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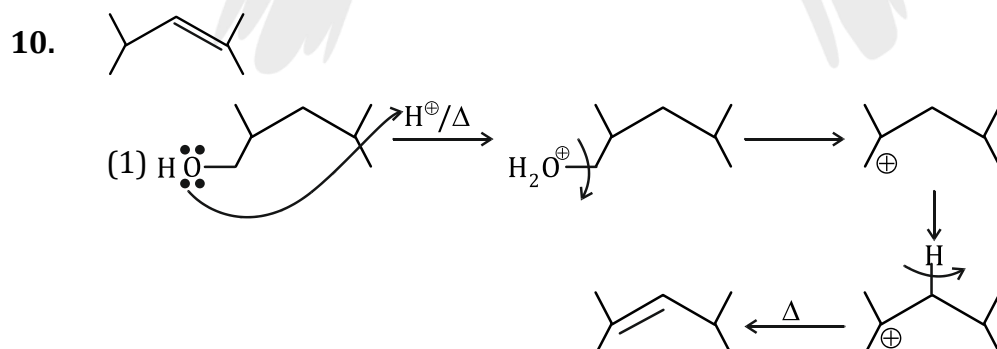
⇒ Stable by Resonance  
with Benzene ring.


Ans. (4 α - H)

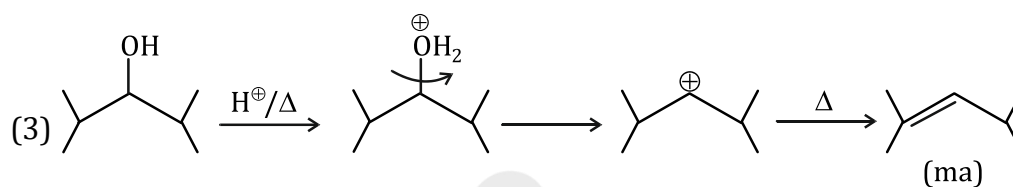
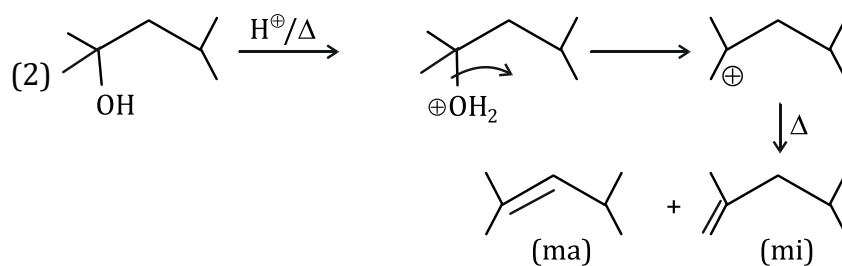


Total No. of 1-2 Shift are = 4

Ans. (4)



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Total no of Alcohols are = (3)

Ans. (3)