

DPP-02

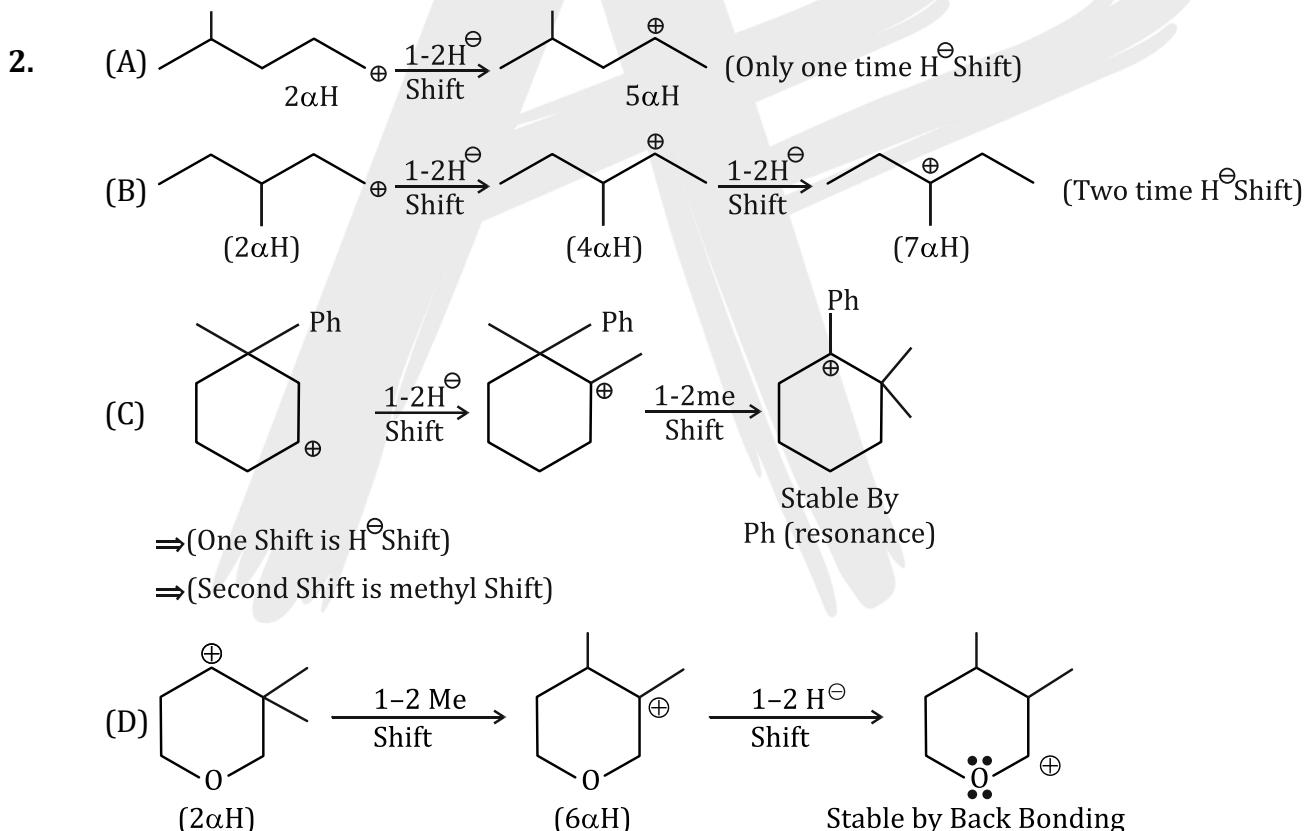
Solution

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

cation of alkali metals are not Electrophiles

Ans (C)

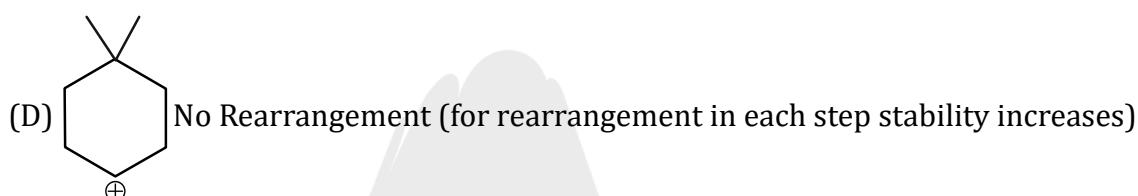
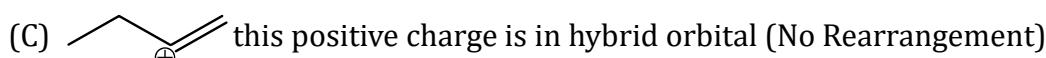
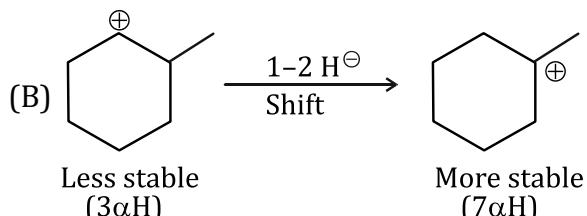


Ans (B)



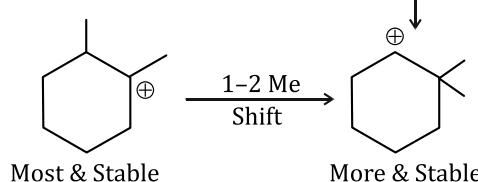
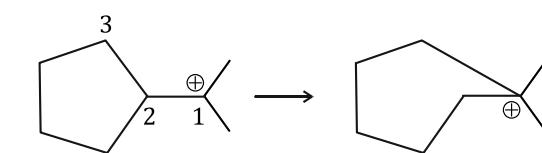
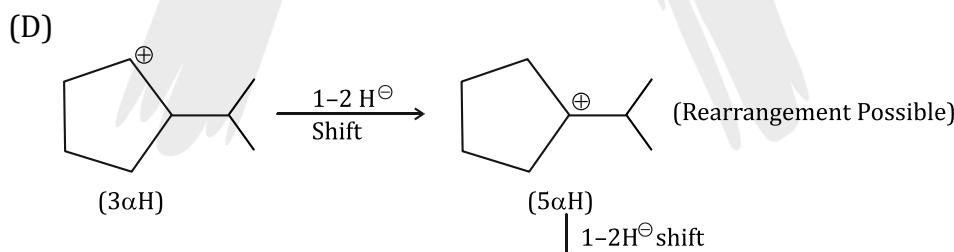
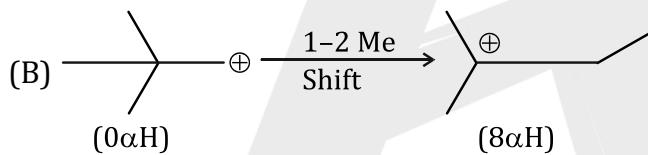
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3. (A) $\text{CH}_3-\overset{\oplus}{\text{C}}=\text{O}$ this positive charge is in hybrid orbital can't Rearrange



Ans (B)

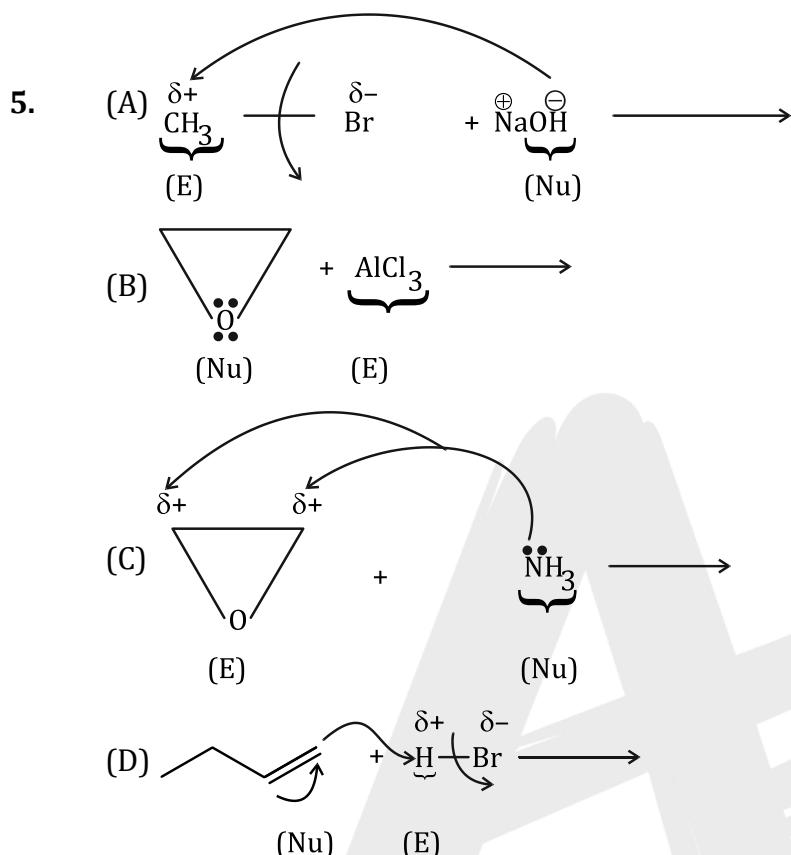
4. (A)



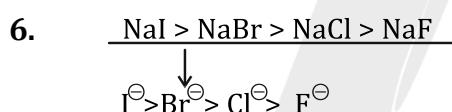


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Ans. (B,D)

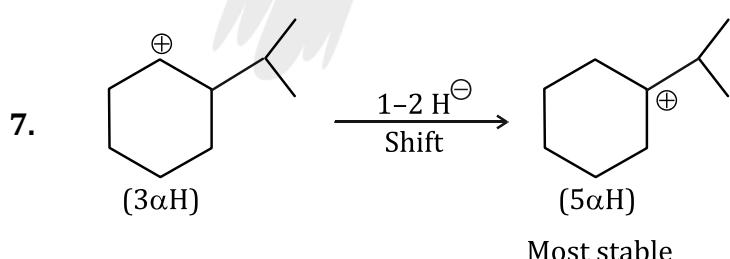


Ans. (B,D)



\Rightarrow Non polar solvent & polar protic solvent

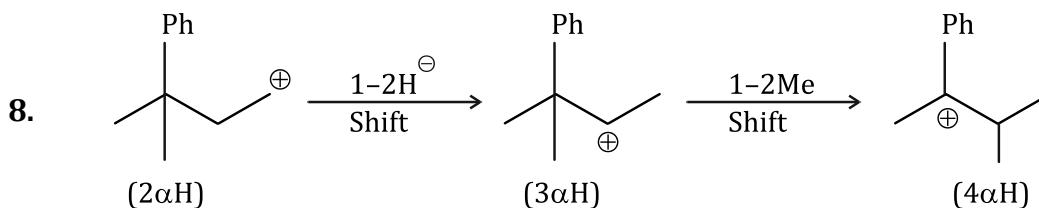
Ans. (A,C)



Only one time it Rearranged

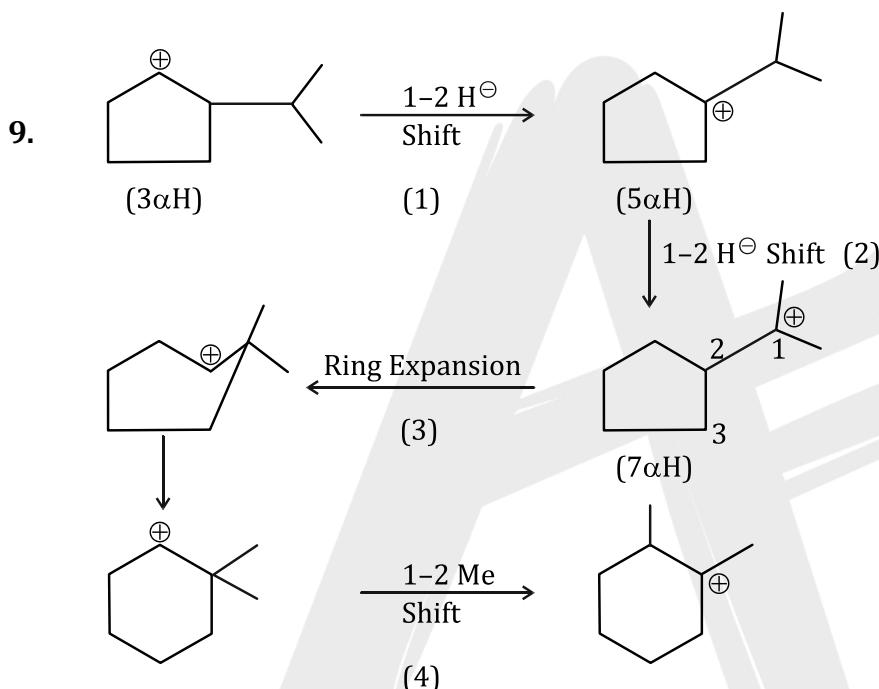
Ans. (1)

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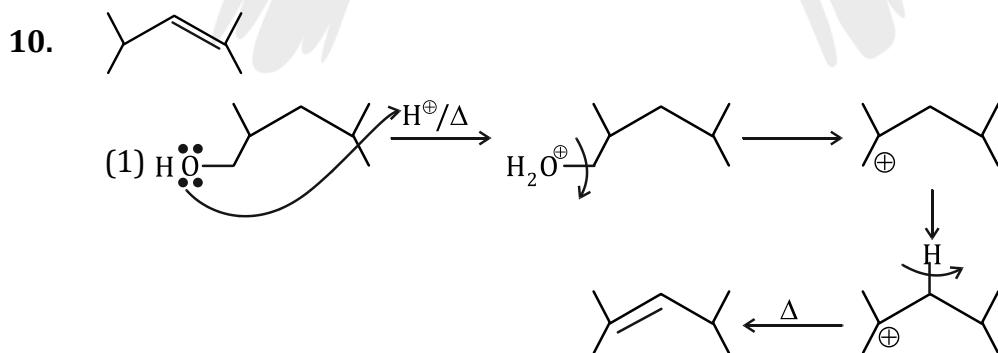
⇒ Stable by Resonance
with Benzene ring.

Ans. (4 α - H)



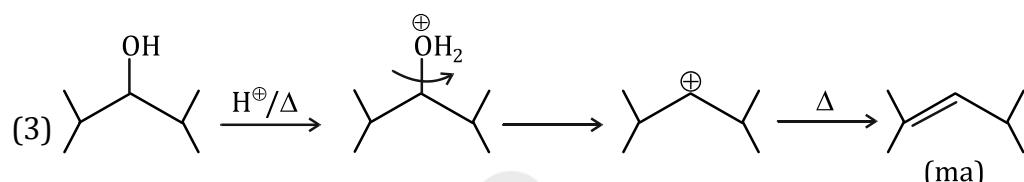
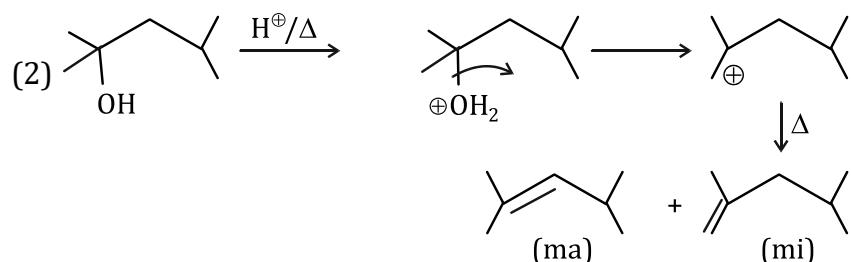
Total No. of 1-2 Shift are = 4

Ans. (4)





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Total no of Alcohols are = (3)

Ans. (3)