


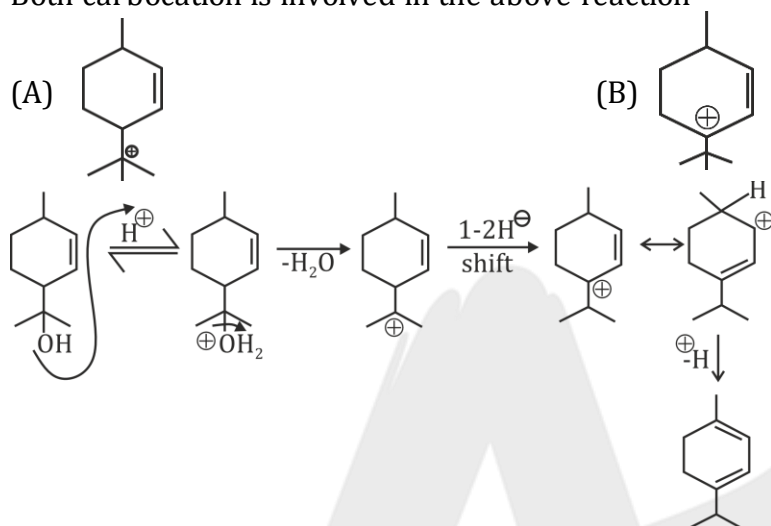
DPP-03

Solution

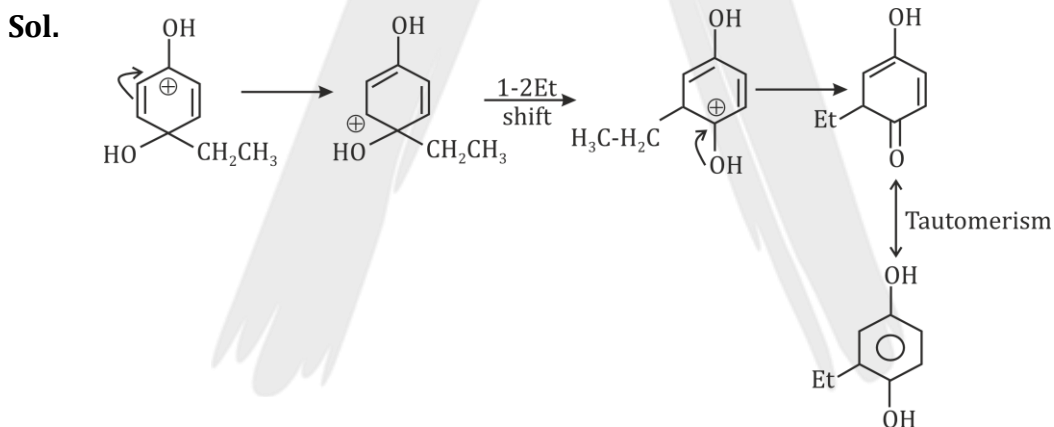
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1. Ans.(C)

Sol. Both carbocation is involved in the above reaction



Ans. (A)

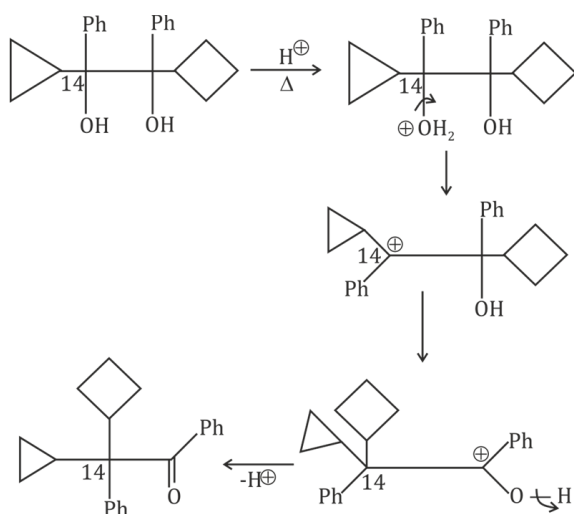


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3.

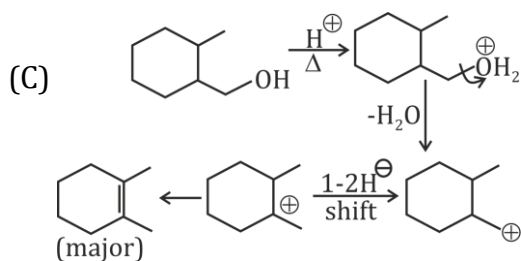
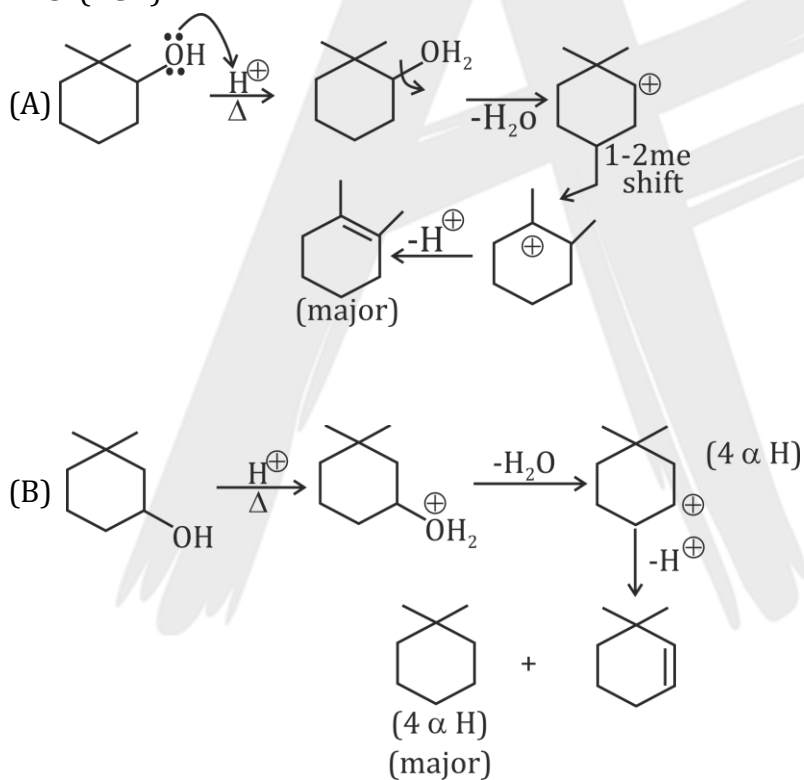
Ans. (A)

Sol.

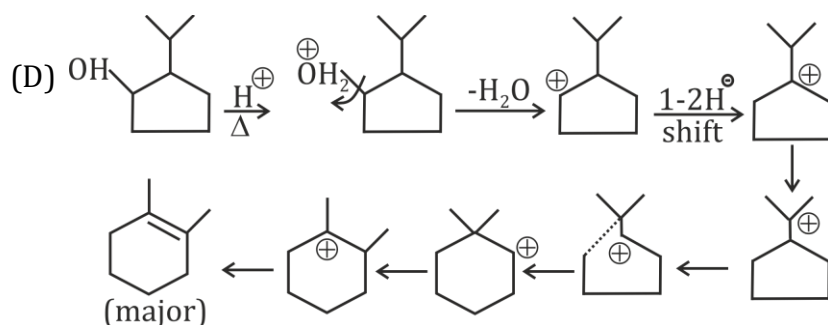


4. Ans. (ACD)

Sol.

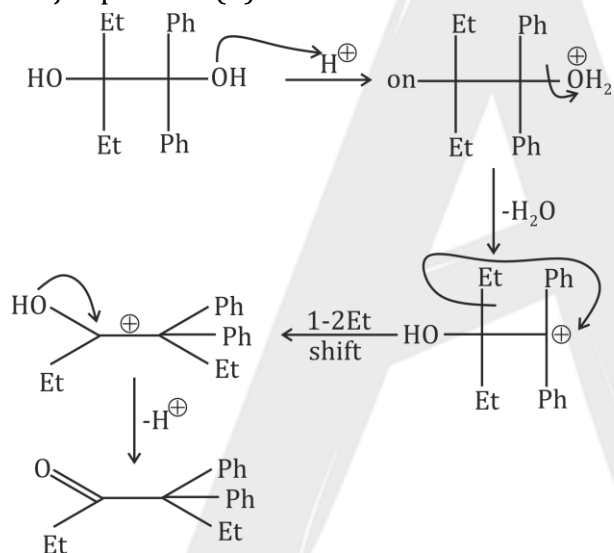


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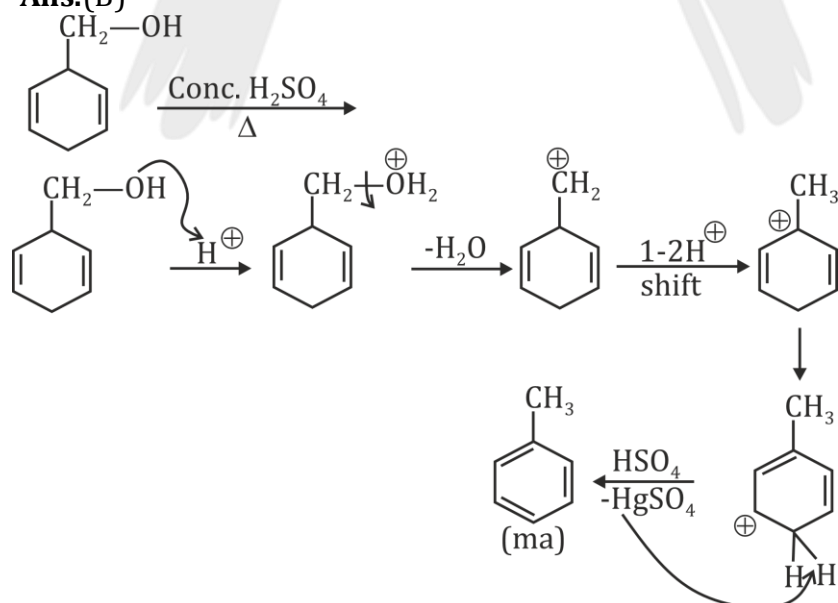
5. Ans.(B)


Sol. Major product (P)



6. Ans.(B)

Sol.



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7. Ans.(D)

Sol. **Statement 1**  $\Rightarrow$   $\text{me}-\overset{\text{me}}{\underset{\text{me}}{\text{C}}}-\overset{\oplus}{\text{C}}=\text{O}$  it do not reearanged because it is most stable due to back bonding by lone pair of (O)- atom.

**Statement 1**  $\Rightarrow$  Hydride is better migrator than methyl dring carbocation rearrangment  $\Rightarrow$  Hence statement (I) is false but statement (II) is true.

8. Ans.(B)

Sol.  $\text{CH}_3-\text{CH}=\text{CH}_2 \xrightarrow[\text{(ii) H}_3\text{O}^+_{18}]{\text{(i) conc. H}_2\text{SO}_4}$  major product.

$\text{CH}_3-\overset{\delta^+}{\text{CH}}=\overset{\delta^-}{\text{CH}_2} \xrightarrow[\text{(ii) H}_3\text{O}^+_{18}]{\text{(i) conc. H}_2\text{SO}_4}$   $\text{CH}_3-\overset{\oplus}{\text{CH}}-\text{CH}_3$

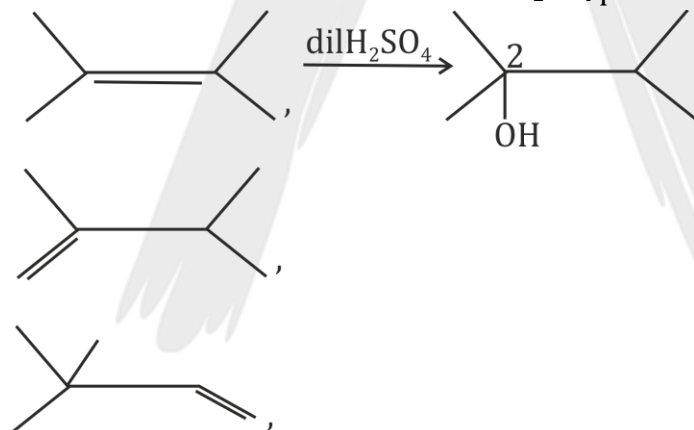
$\downarrow$

$\text{CH}_3-\text{CH}(\text{OH})-\text{CH}_3$

$_{18}\text{OH}$

9. Ans. (3)

Sol. total = 3 alkenes on reaction with  $\text{dil. H}_2\text{SO}_4$  produces 2,3-Dimethylbutan-2-ol



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10. Ans. (2)

Sol.

