

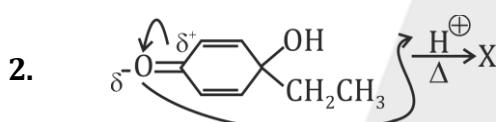
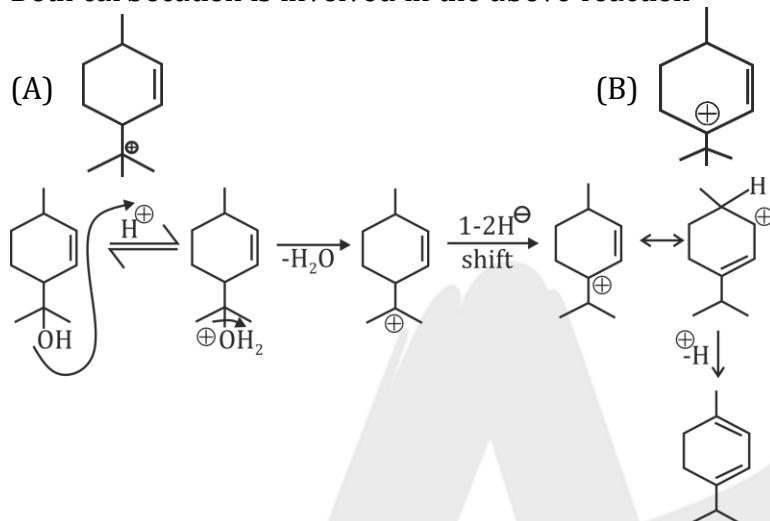


**DPP-03**  
**Solution**

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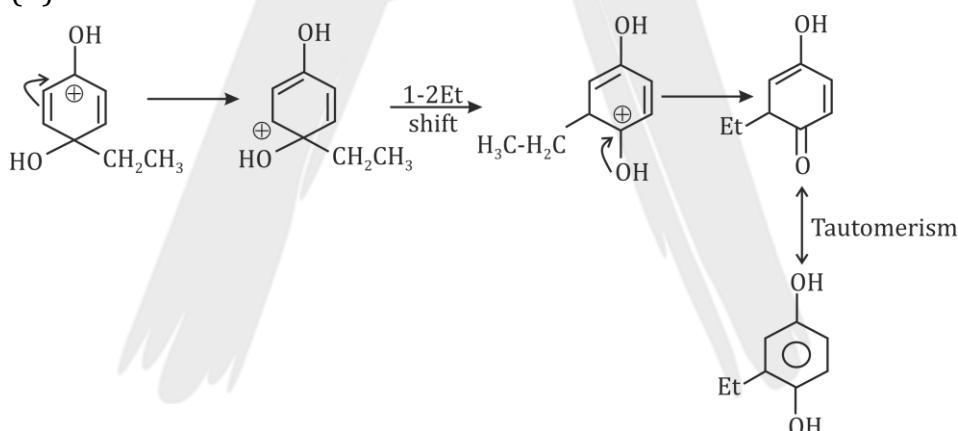
**1. Ans.(C)**

**Sol.** Both carbocation is involved in the above reaction



**Ans. (A)**

**Sol.**



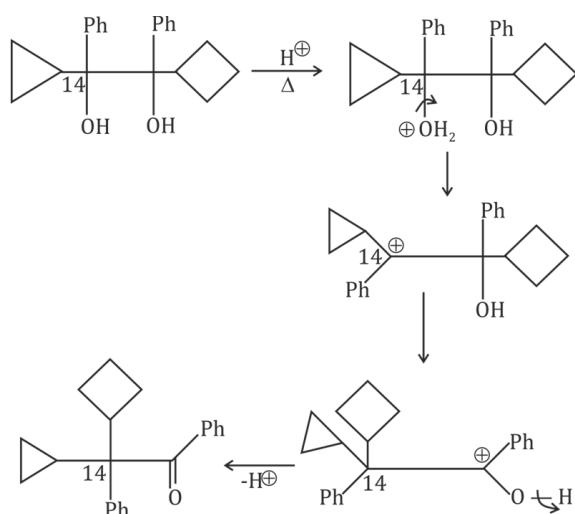


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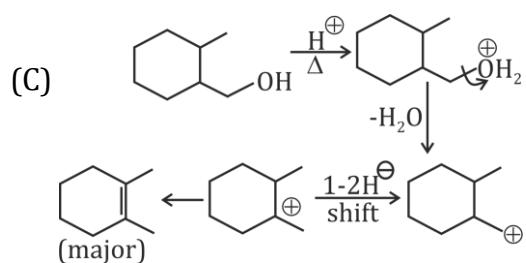
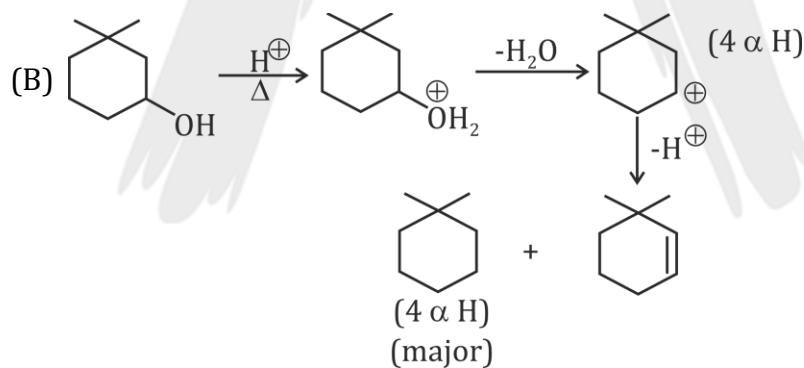
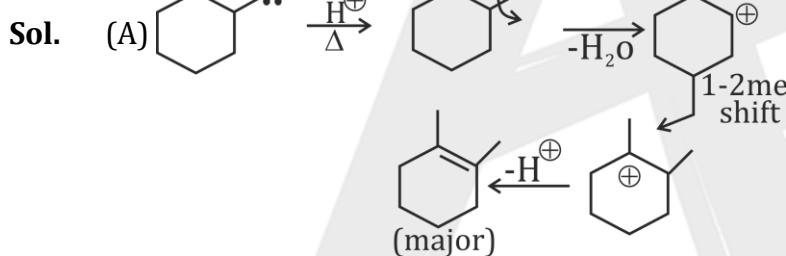
3.

Ans. (A)

Sol.

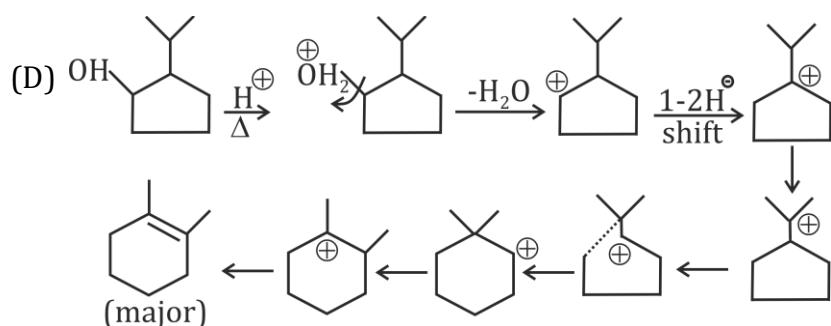


4. Ans. (ACD)



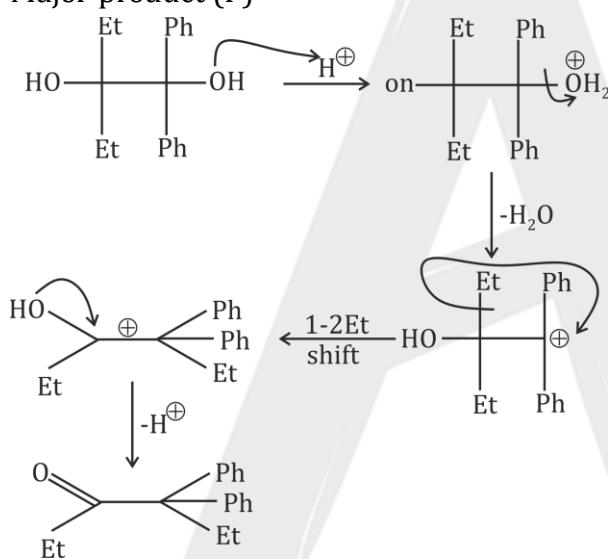


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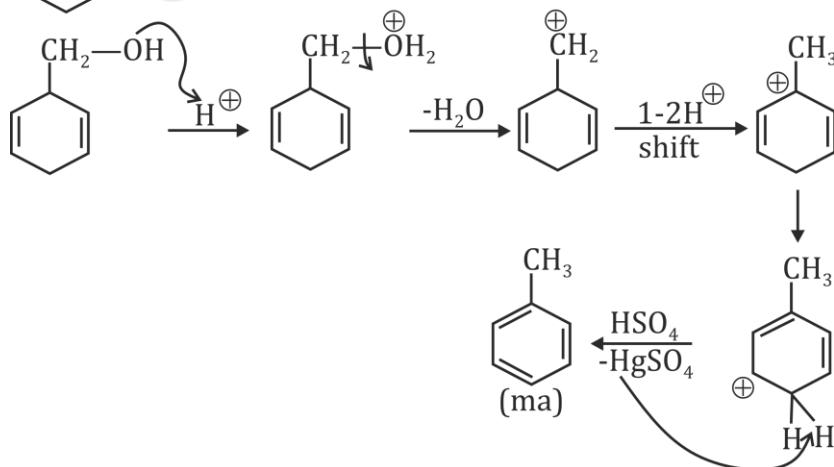
5. Ans.(B)

Sol. Major product (P)



6. Ans.(B)

Sol.





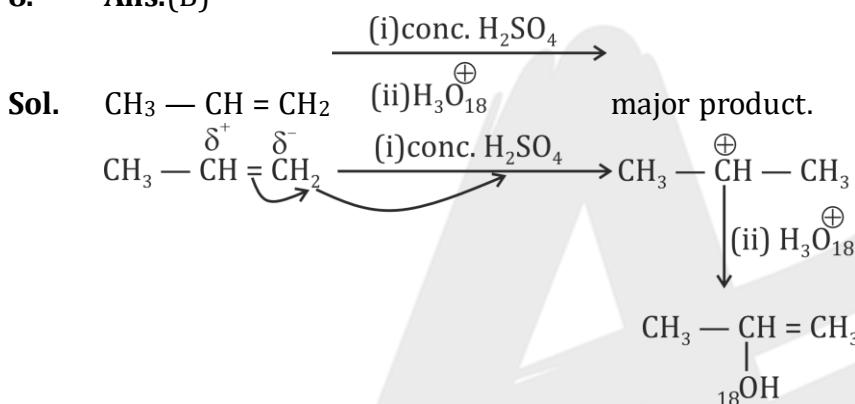
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7. **Ans.(D)**

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

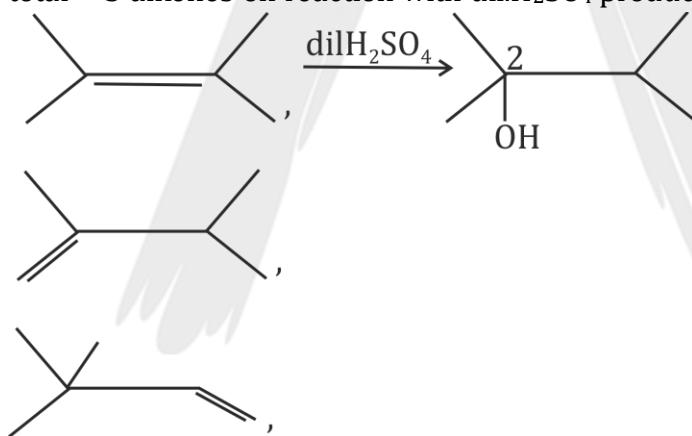
Statement 1  $\Rightarrow$  Hydride is better migrator than methyl dring carbocation rearrangement  
 $\Rightarrow$  Hence statement (I) is false but statement (II) is true.

8. **Ans.(B)**



9. **Ans. (3)**

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





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10. Ans. (2)

Sol.

