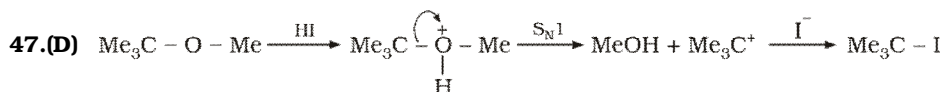
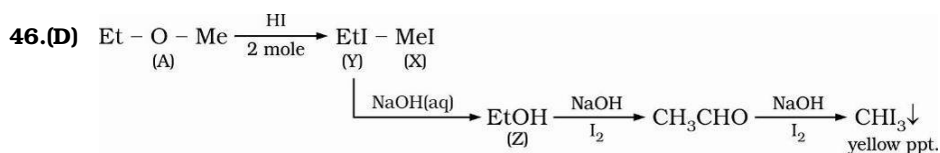
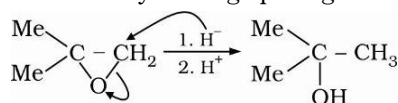


Daily Tutorial Sheet-4

Level-1



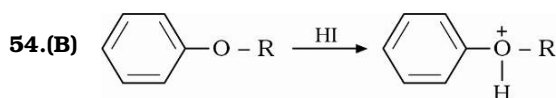
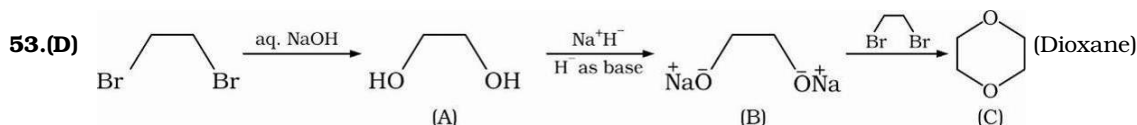
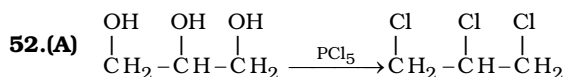
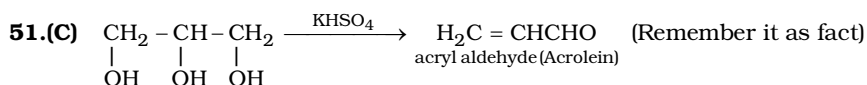
48.(C) Here it is base catalysed ring opening. So watch for steric factors.



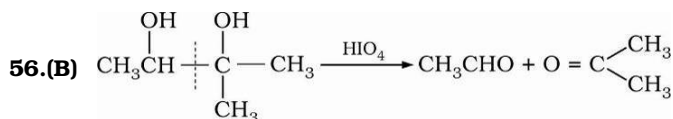
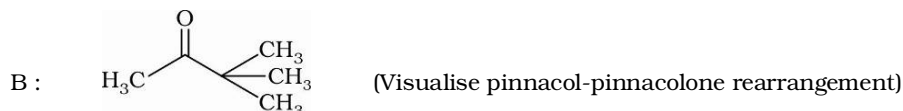
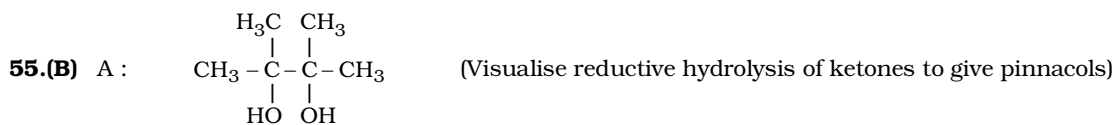
49.(C) In Oxy-mercuration-Demercuration, use of alcohol or phenol instead of  $\text{H}_2\text{O}$  with THF produces corresponding ether. In (A),  $\text{PhO}^-$  will do elimination as substrate is  $3^\circ$  BuCl.

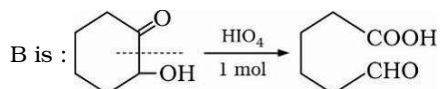
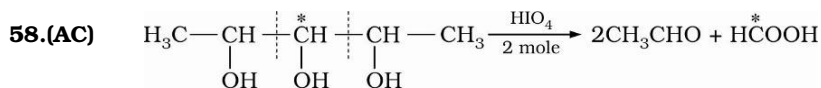
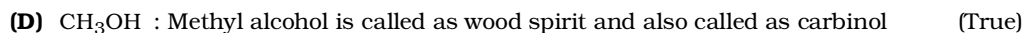
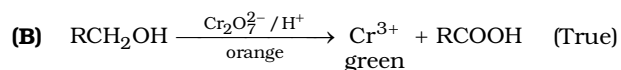
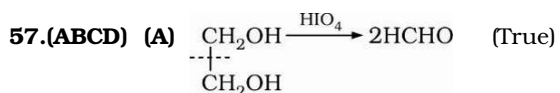
50.(B) (I) will give E2 product as the substrate is  $2^\circ$  RX.

(II) will give  $\text{S}_\text{N}2$  product since substrate has no  $\beta$ -H and it is  $1^\circ$  benzyl chloride.



Now bond between benzene ring and oxygen cannot be broken due to partial double bond character (+M) effect of OMe so phenol is one of the product in cleavage of aromatic ether.





**Note :** B could have been compound given in option D (but it requires 2 mol of  $\text{HIO}_4$  for product)

