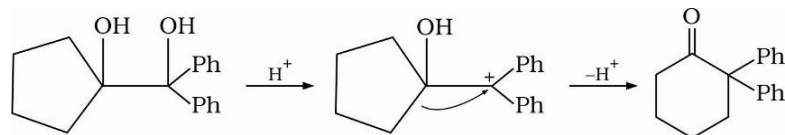


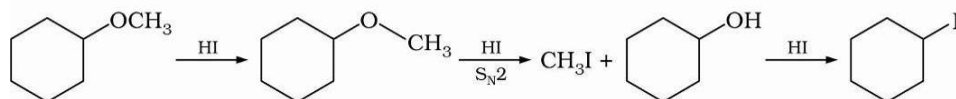
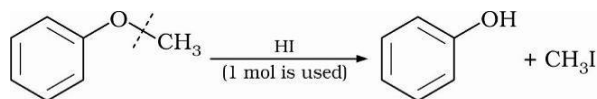
Daily Tutorial Sheet-9

Level-2

- 106.(A)** Visualise pinacol-pinacolone rearrangement. 1st focus on stability of initial carbocation and then visualise ring expansion (migration).

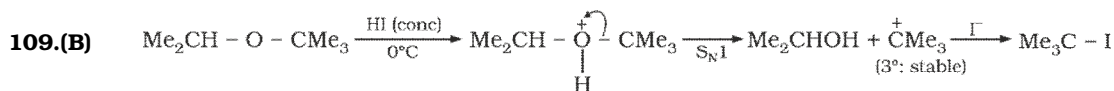


- 107.(B)**



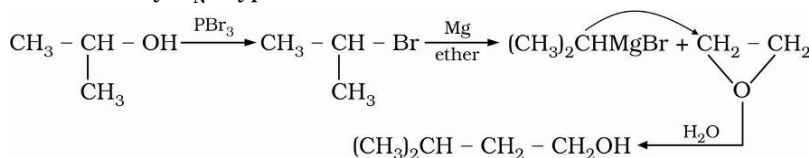
2 moles of HI are used above. So a total of 3 mol of HI are used. Note that phenol formed in the first reaction does not react with HI.

- 108.(B)** Esterification will occur at less hindered -OH group.



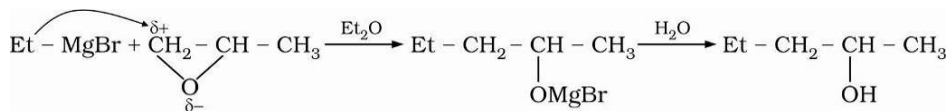
Path is clearly $\text{S}_\text{N}1$ type.

- 110.(C)**

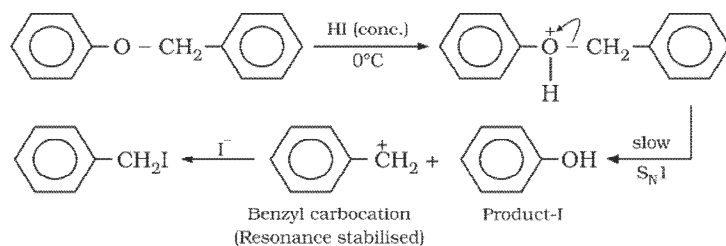


- 111.(C)**

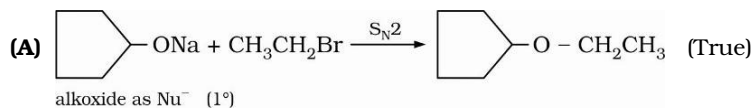
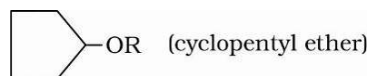
Visualise base (Nu^-) catalysed ring opening i.e., consider steric factors.

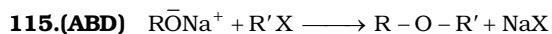
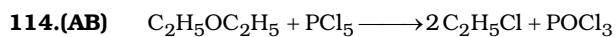
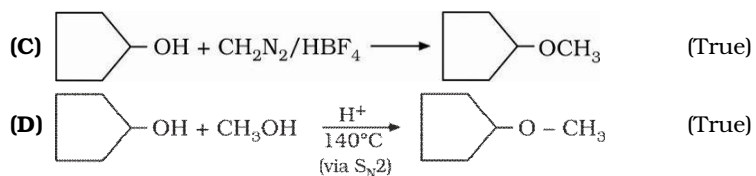


- 112.(BD)**



- 113.(ACD)**





A, B and D options are clearly correct, however (C) is not correct. Alkoxides are good bases and equally good nucleophiles. In case of 3° and 2° alkyl halides, these give E2 products (i.e., alkenes).