

**How are the following conversions carried out?**

**(i) Propene  $\rightarrow$  Propan-2-ol**

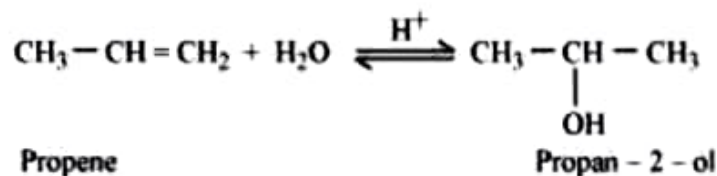
**(ii) Benzyl chloride  $\rightarrow$  Benzyl alcohol**

**(iii) Ethyl magnesium chloride  $\rightarrow$  Propan-1-ol.**

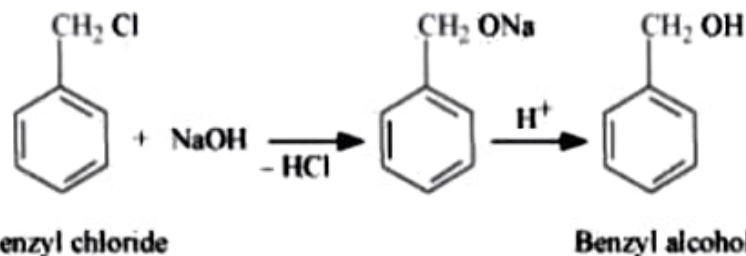
**(iv)** Methyl magnesium bromide → 2-Methylpropan-2-ol.

Answer

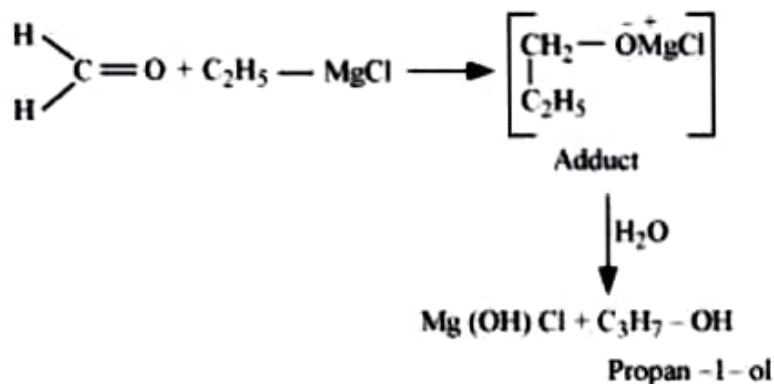
**(i)** If propene is allowed to react with water in the presence of an acid as a catalyst, then propan-2-ol is obtained.



**(ii)** If benzyl chloride is treated with NaOH (followed by acidification) then benzyl alcohol is produced.



**(iii)** When ethyl magnesium chloride is treated with methanal, an adduct is the produced which gives propan-1-ol on hydrolysis.



**(iv)** When methyl magnesium bromide is treated with propane, an adduct is the product which gives 2-methylpropane-2-ol on hydrolysis.

