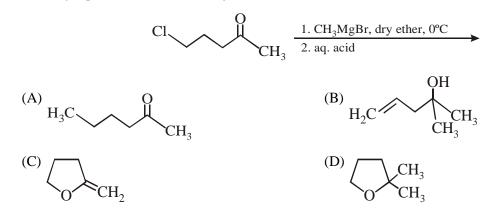
ORGANIC CHEMISTRY

ORGANOMETALLIC COMPOUNDS

1. The major product in the following reaction is

[JEE(Advanced) 2014]



SOLUTIONS

ALLEN[®]

1. Ans. (D)

 $(\text{Leaving group}) \bigoplus_{\text{[Polar } \pi\text{-bond give nucleophilic addition reaction]}} [Polar \pi\text{-bond give nucleophilic addition reaction]}$

(i) Grignard prefer to give nucleophilic addition on polar π -bond and form anion intermediate.

$$Cl \longrightarrow He Mg Cl \longrightarrow Cl \longrightarrow Me$$

(ii) In next step anion give intramolecular nucleophilic substitution reaction & form 5 membered ring.

