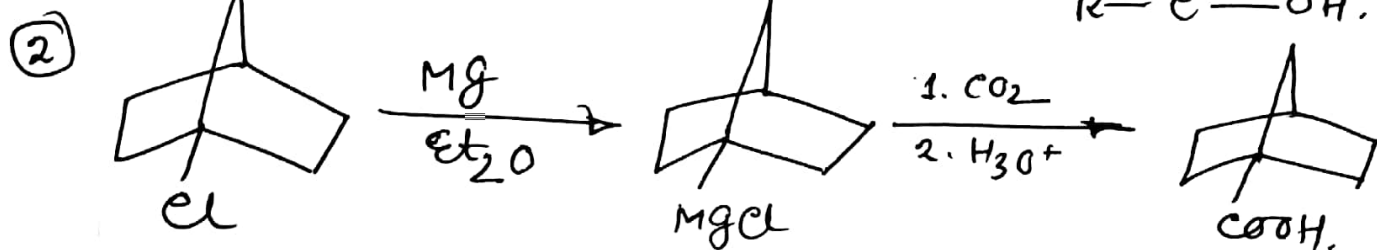
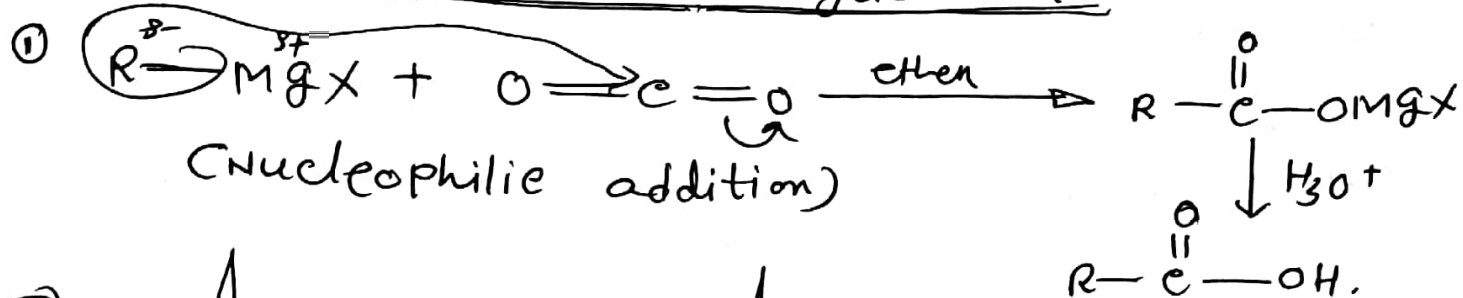


Organometallic

class-3.

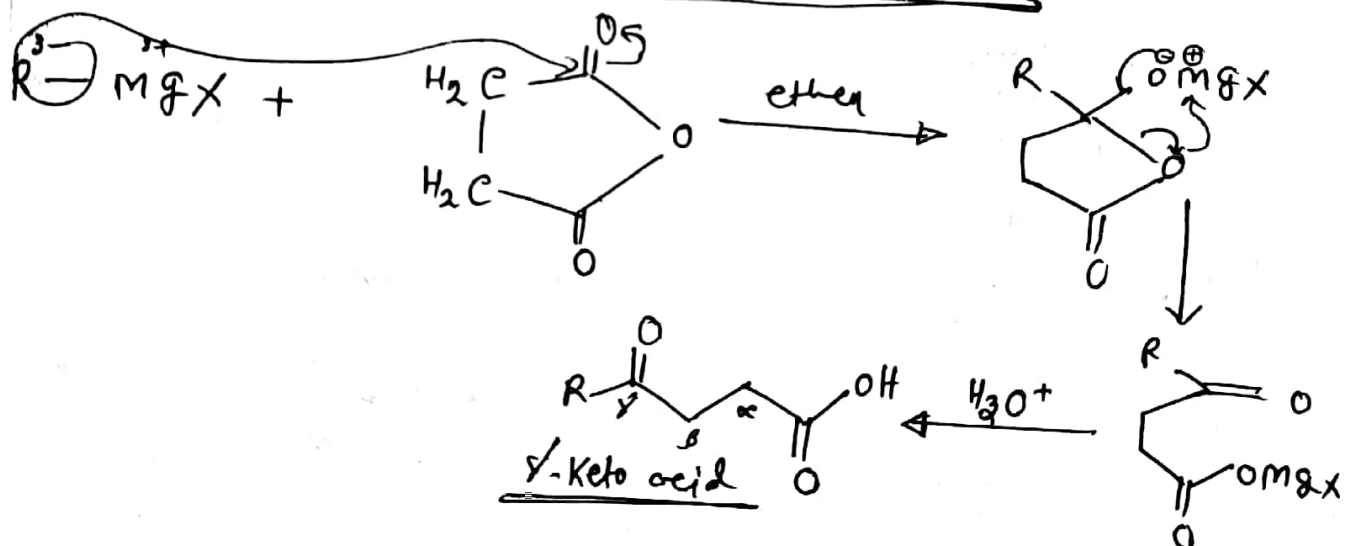
(1)

Synthesis of carboxylic acid

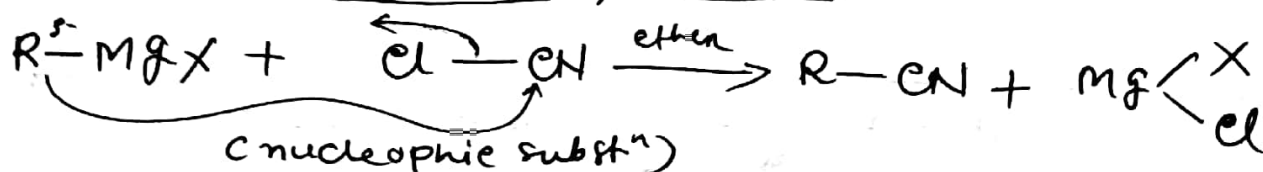


Note: This method is suitable for the preparation of carboxylic acid of the type $\text{R}_3\text{C}\cdot\text{COOH}$

Synthesis of keto acid



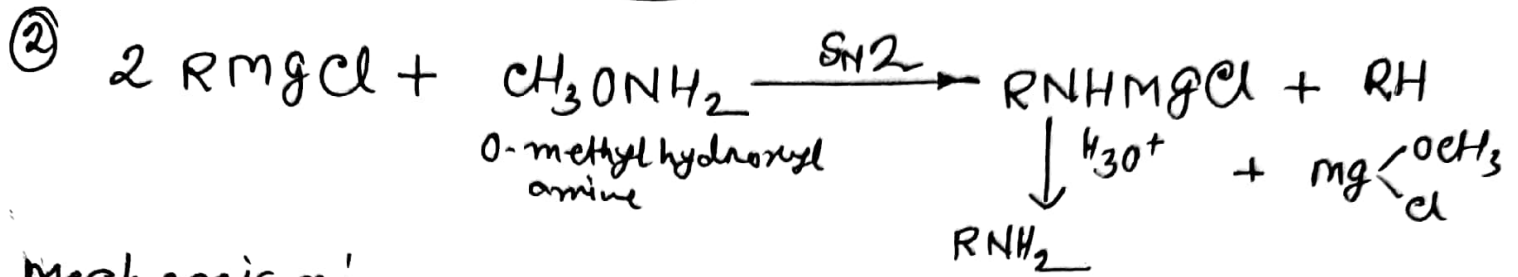
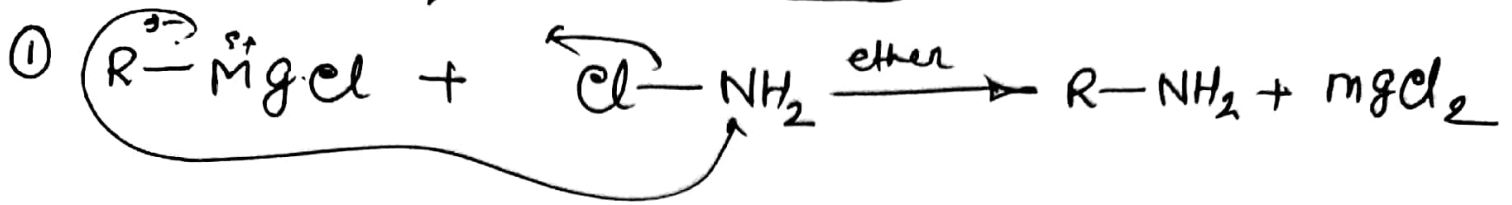
Synthesis of alkyl cyanide



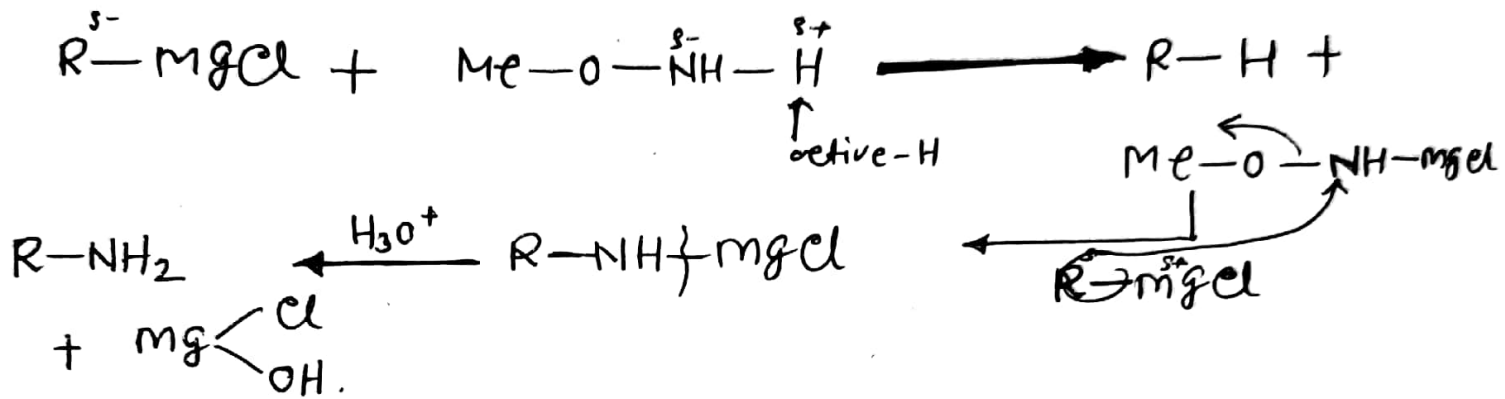
Note: cyanogen chloride should be taken in excess to avoid further rxn of R-CN with GR

Synthesis of 1° amine

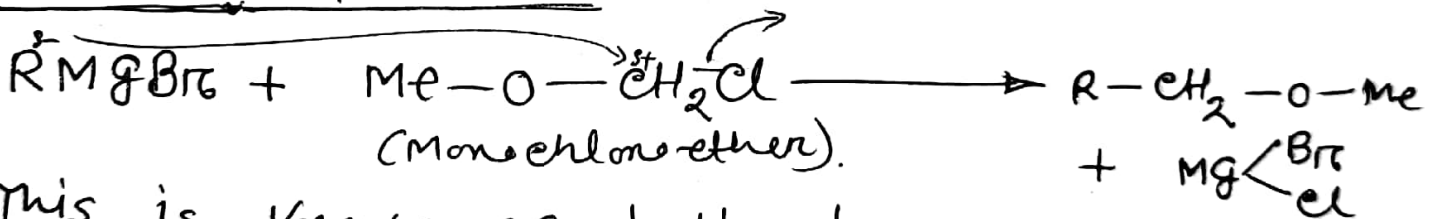
(2)



Mechanism:-



Synthesis of ethers:-



This is known as double decomposition rxn.

Synthesis of Esters:-

