

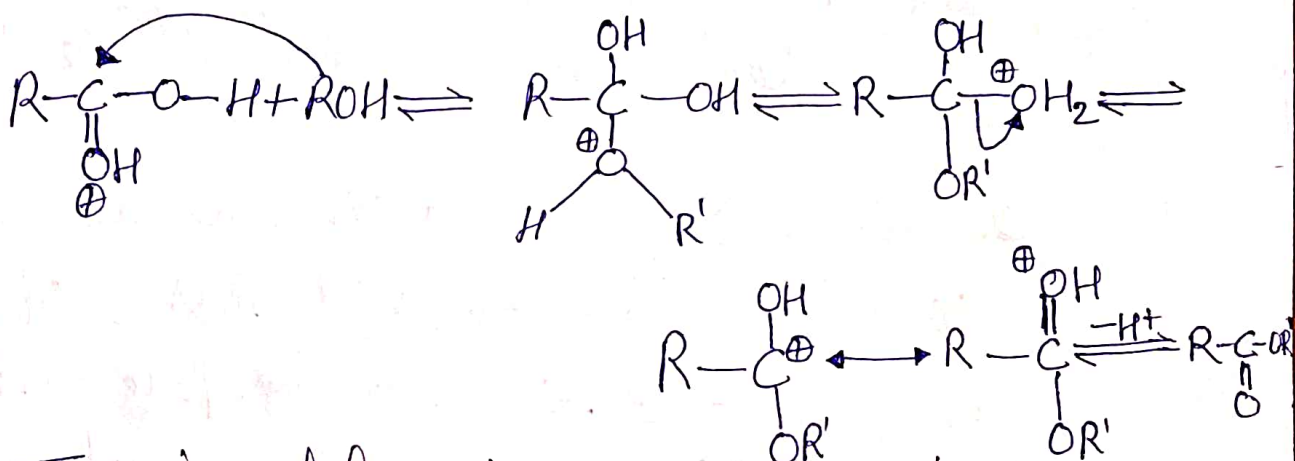
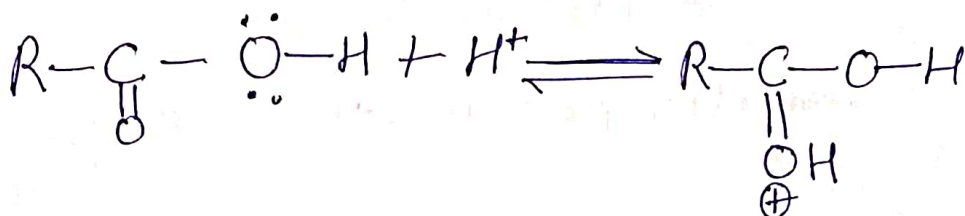
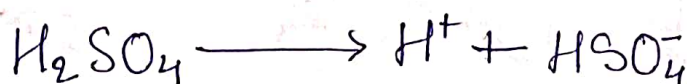
D. B. College (Jaynagar) Lect - 12

Akhilesh Kumar Singh

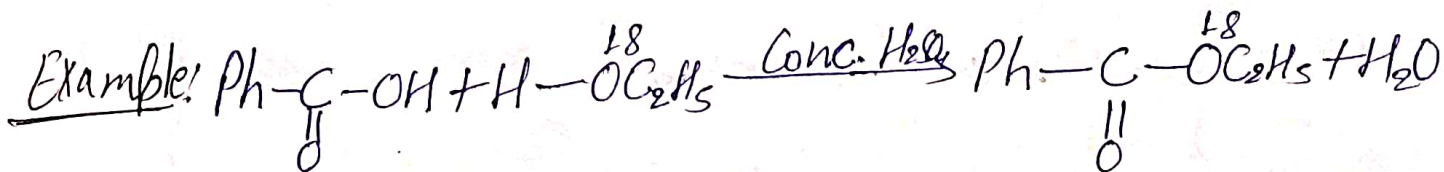
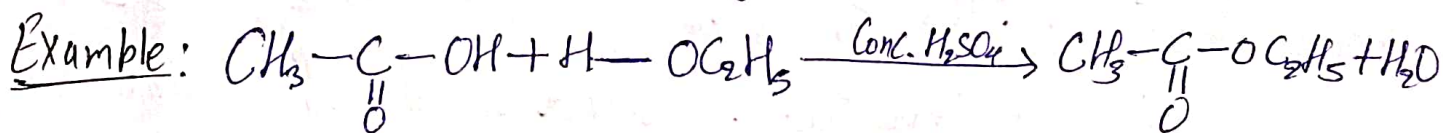
Chemistry department B.Sc (sub) Part - II

Mob :- 8750390927

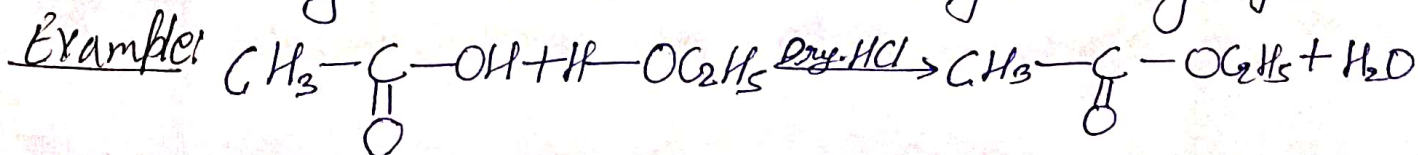
◆ Mechanism!



Note: This is a laboratory method to prepare ester.

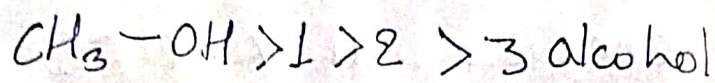


Dry HCl can be used as dehydrating agent.

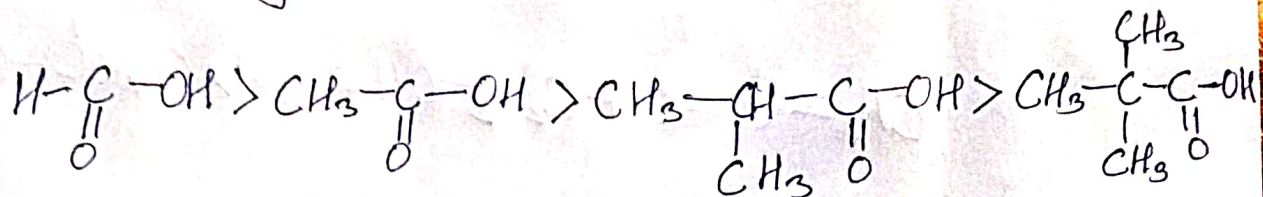


(i) Reactivity for esterification $\propto \frac{1}{\text{steric hindrance}}$

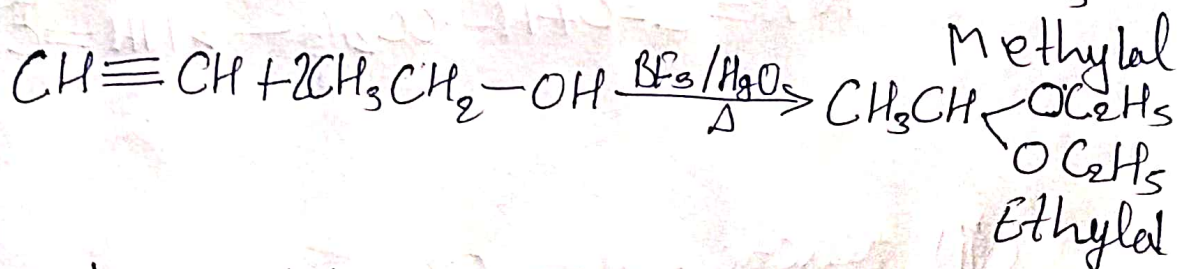
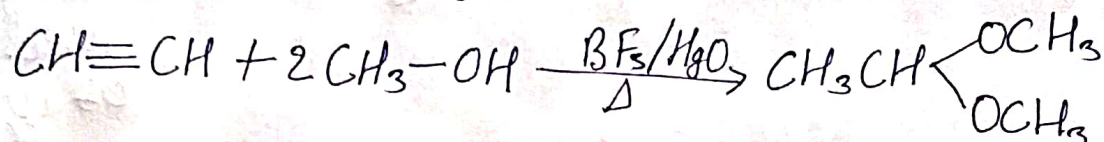
(ii) Reactivity of R-OH [if acid is same]:



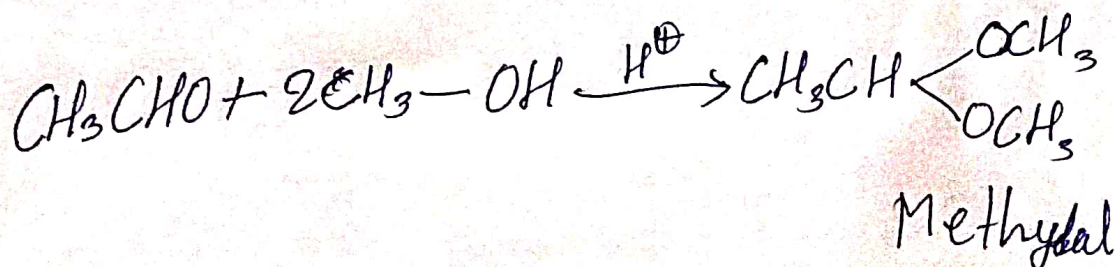
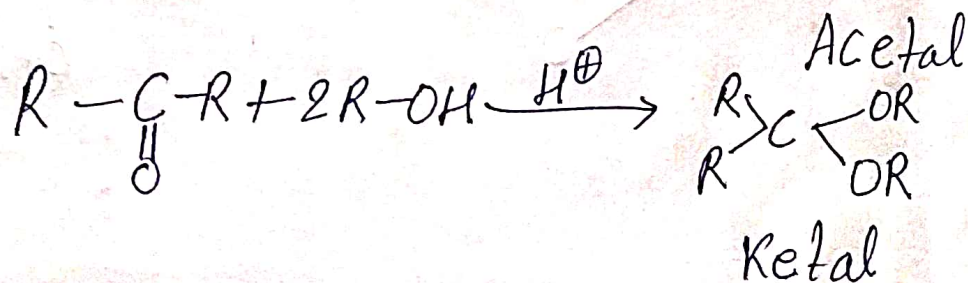
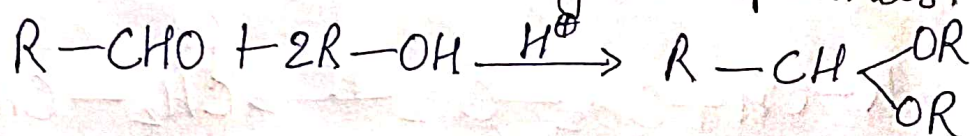
(iii) Reactivity of RCOOH [if alcohol is same]:



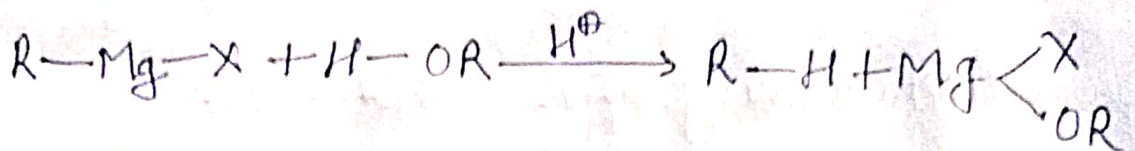
(vii) Reaction with $\text{CH}\equiv\text{CH}$:



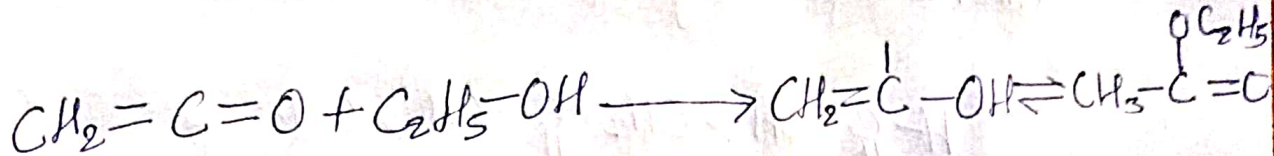
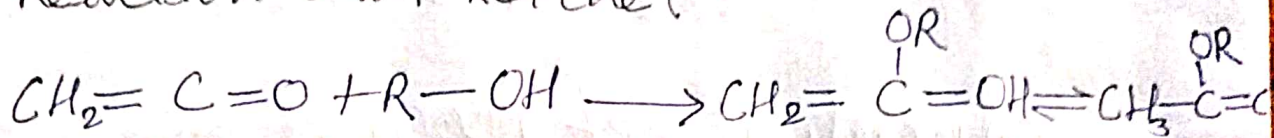
(viii) Reaction with carbonyl compounds:



(ix) Reaction with Grignard reagent!

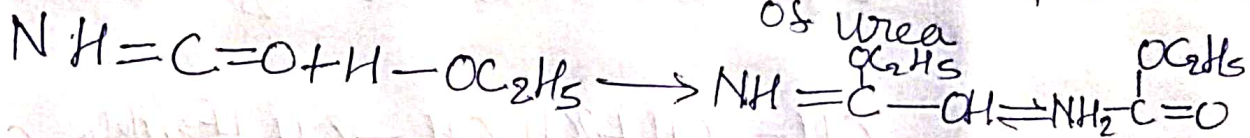


(x) Reaction with ketene!



Ethylacetate

(xi) Reaction with isocyanic acid! Ethyl urethane is used in preparation of urea



Ethyl urethane

(xii) Reaction with Oxirane!

