

Course Chem 345 Lecturer Gellman
 Day Monday Date 4-4-16
 Notes Taken By Shi Lin Total # of Pages 3

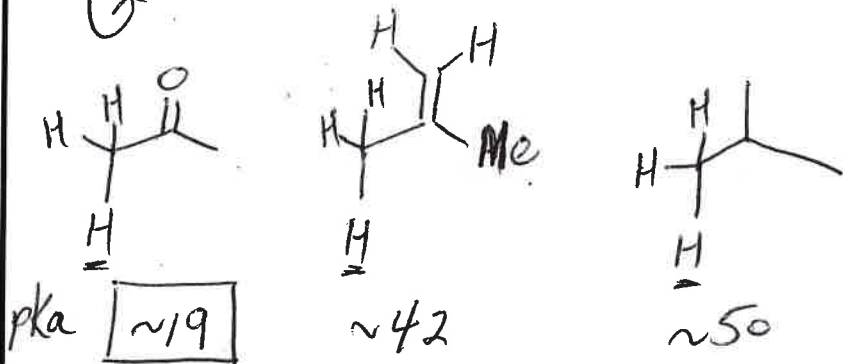
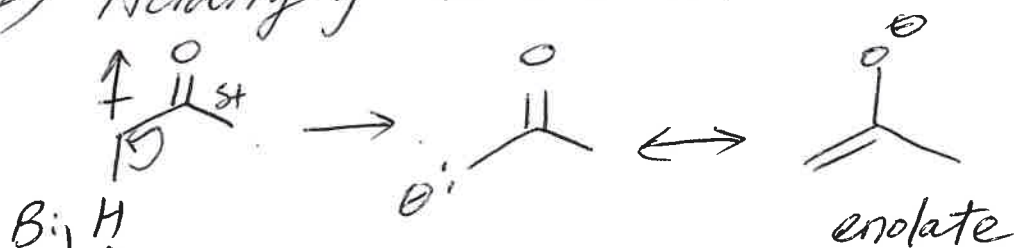
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Recall: 2 Themes of Carbonyl Reactivity

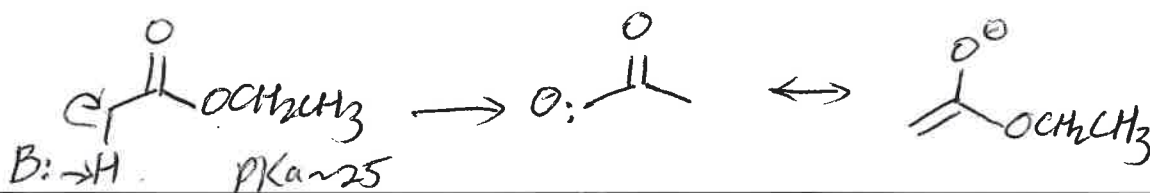
1) Addition of Nucleophile to Carbonyl



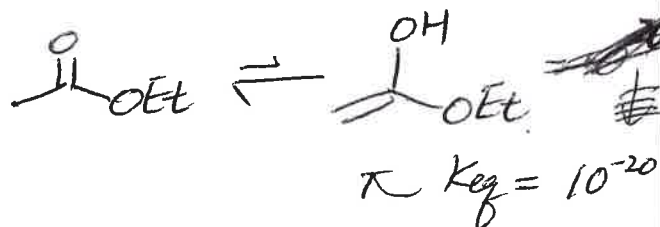
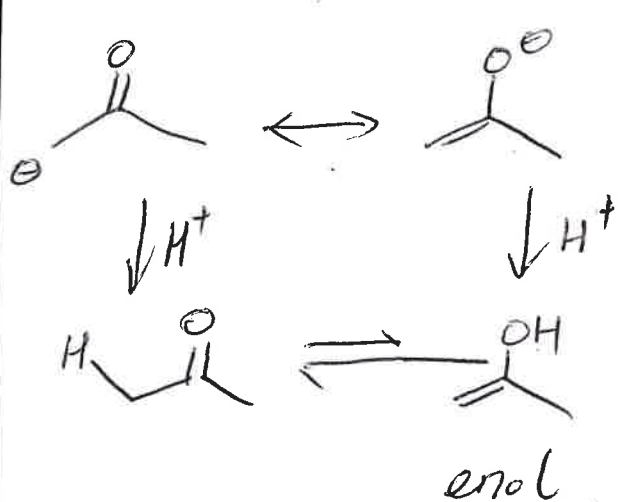
2) Acidity of α -Carbon.



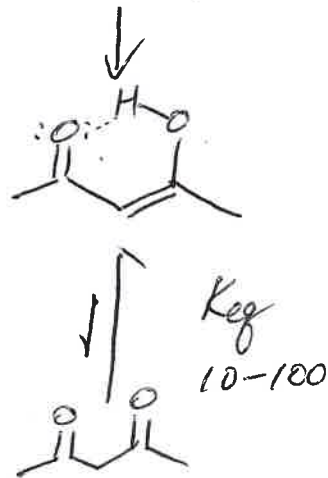
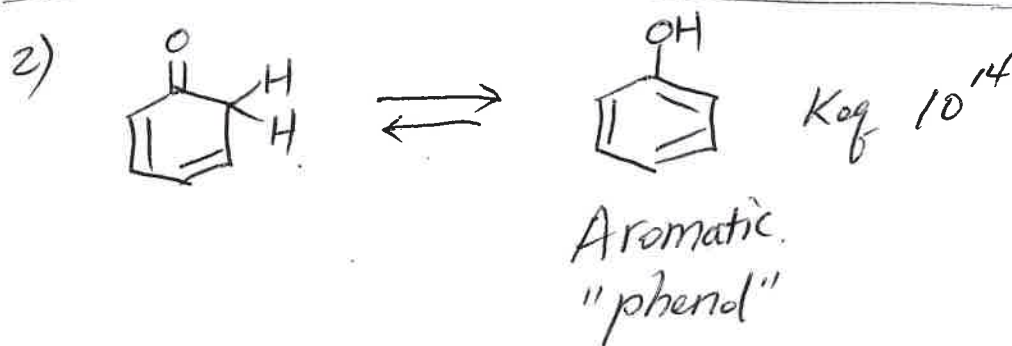
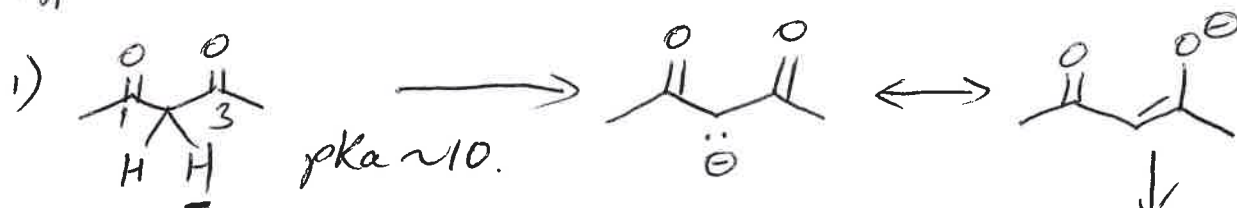
$\text{R}-\text{OH}$
 $\approx 16-18$



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Atypical

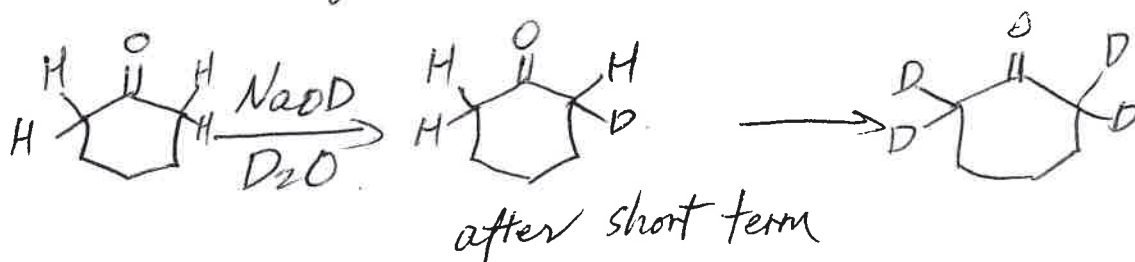


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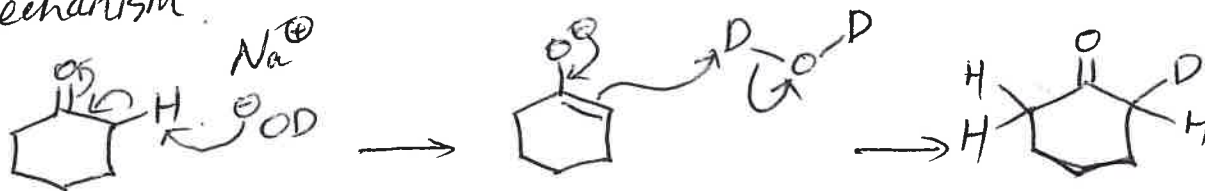
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Reactions

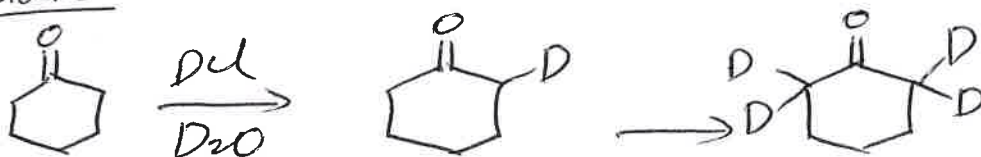
1) H/D Exchange



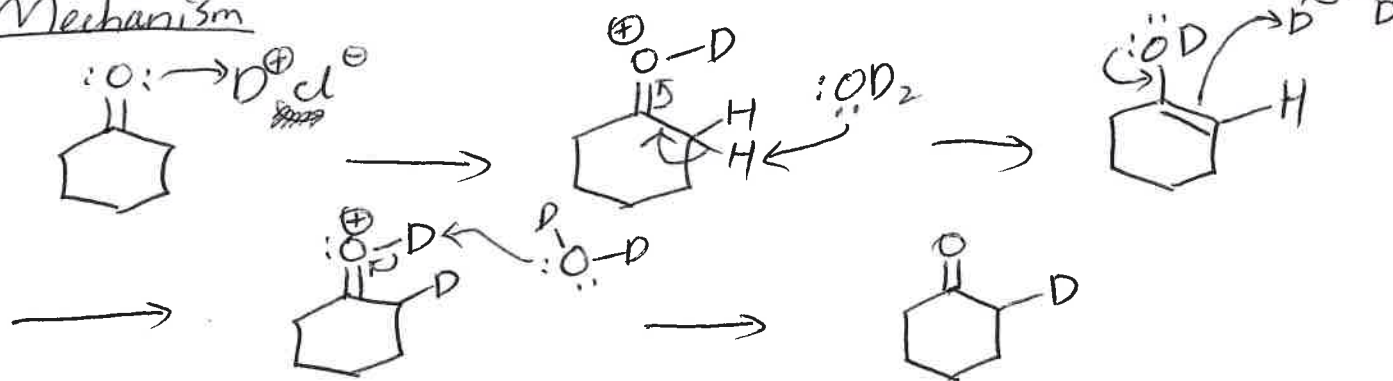
Mechanism



Acidic



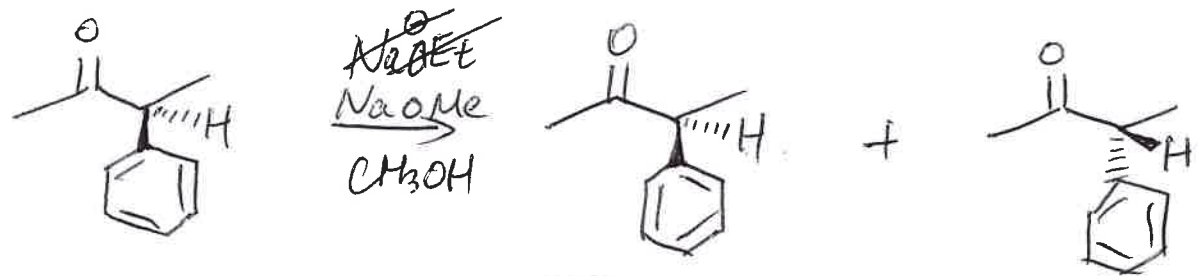
Mechanism



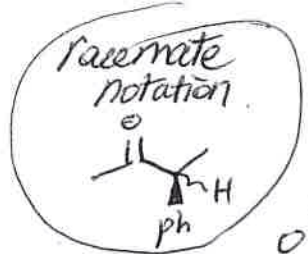
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<u>Reagents</u>	<u>protonate</u>	<u>deprotonate</u>
H_3O^+	H_3O^+, H^+	$\ddot{O}H_2$
$\ominus OR$	HOR	$\ominus OR$

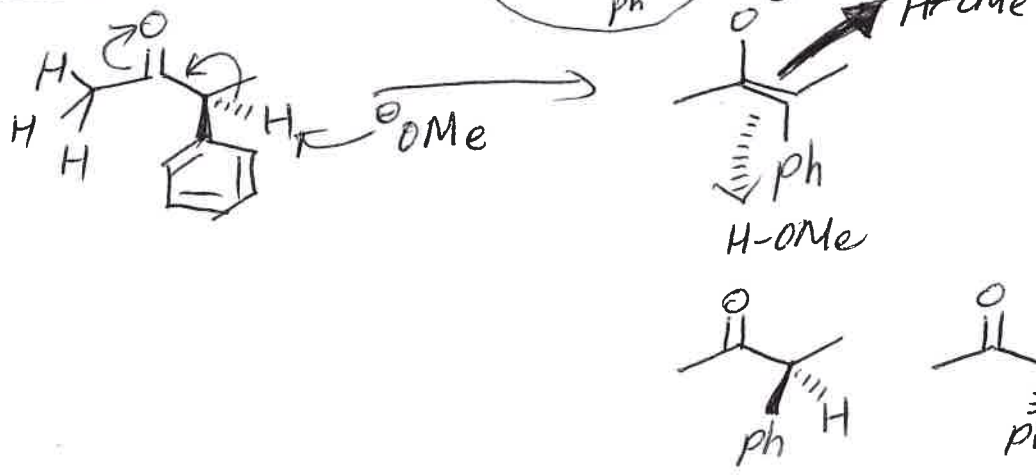
2) Isomerization / Racemization.



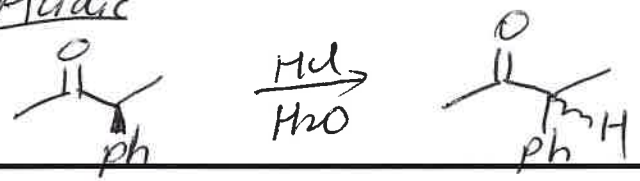
racemate
50:50 mixture



Mech:



Acidic



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