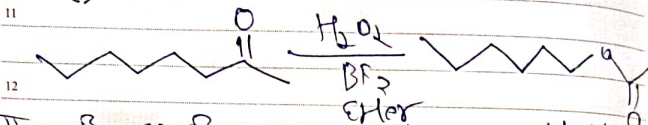
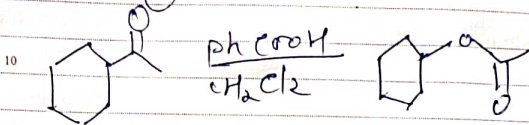


13 August

Thursday • Week 33 Day (226-140)

08 August 2020						
wk	M	T	W	T	F	S
31						
32	3	4	5	6	7	8
33	10	11	12	13	14	15
34	17	18	19	20	21	22
35	24	25	26	27	28	29

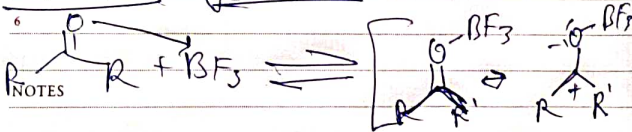
Ans 2, Baeyer-Villiger Oxidation



The Baeyer-Villiger oxidation is the oxidative cleavage of a carbon-carbon bond adjacent to a carbonyl, which converts ketones to esters and cyclic ketones to lactones.

→ The Baeyer-Villiger can be carried out with peracids such as MCPBA or hydrogen peroxide and Lewis acid.

Mechanism of Baeyer-Villiger

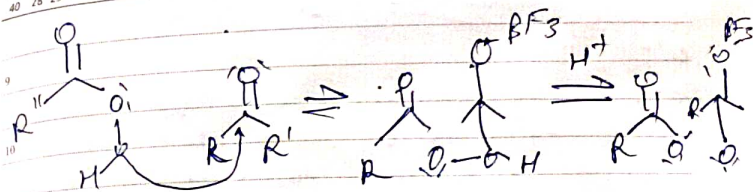


2020

August 14

Week 33 Day (227-139) • Friday

09 September 2020						
wk	M	T	W	T	F	S
36	1	2	3	4	5	6
37	7	8	9	10	11	12
38	14	15	16	17	18	19
39	21	22	23	24	25	26
40	28	29	30			



The regioselectivity of the reaction depends on the relative migratory ability of the substituents attached to the carbonyl. Substituent which is able to stabilize a ~~sigma~~ ^{sigma} strain factor position charge migrates more readily. So that the order of preference is: alkyl > cyclohexyl > sec alkyl > phenyl > prim alkyl > CH₃.

In some cases stereochemistry or sigma strain factor also affect the regiochemical outcome.

NOTES

2020