

PART – C	
Answer any FOUR questions. $(4 \times 10 =$	40 Marks)
23. a. Analyse the mechanism of Lithium Aluminium Hydride reduction.	(5)
b. Investigate the photochemical reactions of carbonyl compounds.	(5)
24. a. Write a note on the classification of carboxylic acids.	(5)
b. Account for the following conversion with the suitable mechanism.	
	(5)
25. a. Discuss pinacol-pinacolone rearrangement.	(5)
b. Compare cope and Claisen rearrangement reactions.	(5)
26. a. How will you synthesize the following compounds from ethyl acetoacetate.	(6)
i. Adipic acid ii. Crotonoic acid	
b. Mention any one characteristic reaction for the keto and enol group of ethyl acetoacetate.	(4)
27. a. How is Grignard reagent prepared? Outline its utility in organic synthesis.	(7)
b. Describe the application of organozinc reagents in Carbon-Carbon bond formation.	(3)
28. a. Compare Wolf-Kishner and Meerwin Pondorf Varley reductions of carbonyl compounds.	(5)
b. Describe the mechanism of benzil-benzylic rearrangement.	(5)

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