Sanjay Ghodawat University, Kolhapur

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2020-21

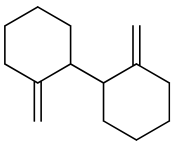
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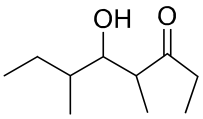
Year and Program: 220-21/ S. Y. M.Sc.	**School of Science**	**Department:**
Course Code: CHS 605	**Course Title: Advanced Synthetic Methods and Developments in Organic Chemistry**	**Semester III**
Day: Wednesday Date:23.12.2020	**End Semester Examination**	**Time : 2 Hrs. Max Marks :50**

Instructions: 1) All Questions arecompulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**–			
a)	Compare the reductions carried out by using $LiAlH_4$ and $NaBH_4$ with proper examples.	8	L3	CO1
b)	Write a note on Suzuki and Stille reaction.	8	L2	CO1
c)	Discuss the guidelines for choosing disconnections.	8	L3	CO2
Q.2	**Answer the following (any two) –**			
a)	Suggest synthesis for the following compounds, using disconnection approach.	8	L4	CO2

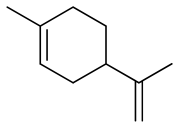
(a) (b)





b)	Write a note on Merrifield resin and its applications.	8	L2	CO3
c)	Discuss the importance and advantages of Ionic liquids and enzymes in organic synthesis.	8	L3	CO4

Q.3 Answer the following (any two) –

a)	Discuss two-group C-C disconnections with reference to Diels-Alder reaction. Outline the retrosynthetic analysis and design of the synthesis of the following compound. 	9	L4	CO2
b)	What are multicomponent reactions? Describe the mechanism of Passerini and Biginelli reaction.	9	L3	CO3
c)	Explain the importance of microwave and ultrasound reactions in organic synthesis with examples.	9	L2	CO4

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