Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

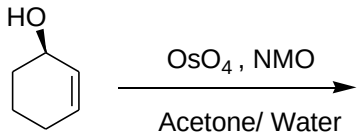
EXM/P/09/00

Year and Program: 2020-21 F.Y. M.Sc.	**School of Science**	**Department: Chemistry**
Course Code: CHS502	**Course Title: Organic Chemistry-II**	**Semester : II**
Day and Date:	**End Semester Examination**	**Time:2 Hrs. Max Marks:50**

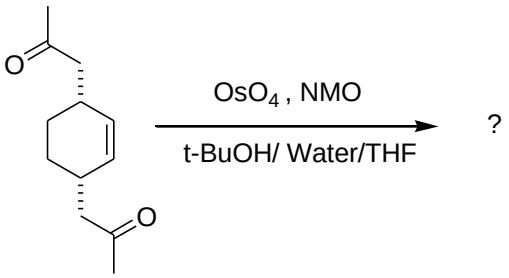
Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer the following questions**			
a)	What is*Stobbe* condensation reaction? Explain *Stobbe* condensation reaction with reaction mechanism.Write application of *Stobbe* condensation in the synthesis of saturated acid.	8	L4	CO1
b)	Explain *Prevost*and *Woodward* reaction with detail mechanism.	8	L3	CO2
	OR			
c)	Complete following reactions with reaction mechanism, Give Stereochemistry of product	8	L3	CO2

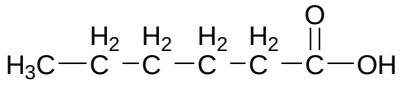
I)

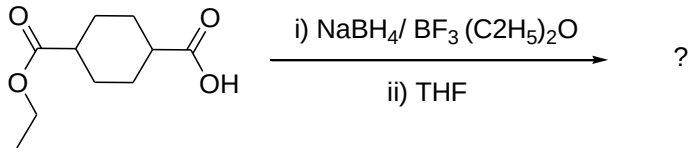


II)



Q.2	**Answer the following questions**			
a)	Give a comparative account of homogeneous and heterogeneous catalytic hydrogenation reactions. Explain one reaction with mechanism.	8	L4	CO3
b)	Predict the products and give appropriate reaction mechanism for following reaction.	8	L4	CO3

I) 

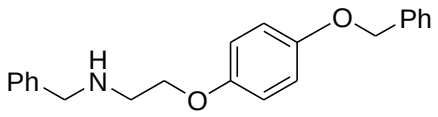
II) 

OR

c)	Give applications of the protecting and de-protecting group for alcohol with example.	8	L4	CO4

Q.3 Answer the following questions.

a)	What is retrosynthesis and synthons? Give your plan to synthesize following Target Molecules (TM).	9	L5	CO5



TM

b)	Give synthetic methods for preparation of organo-lithium compound. How will you prepare primary, secondary, tertiary alcohol form organo-lithium compound?	9	L4	CO4

OR

c)	How organo-Titanium compound will be prepared? What will happens when methyl titanium trichloride react with aldehyde and cyclic ketone respectively?	9	L4	CO4

*****