Sanjay Ghodawat University, Kolhapur

2020-21

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

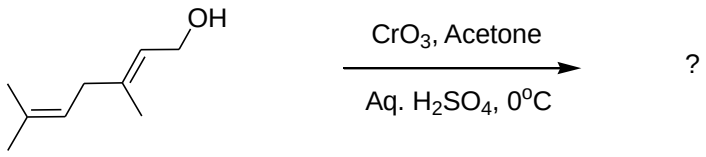
EXM/P/09/00

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**

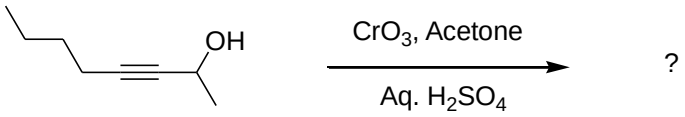
Instructions: 1) All Questions are compulsory.

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

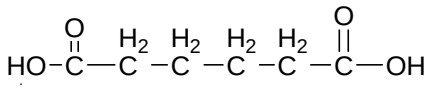
I)

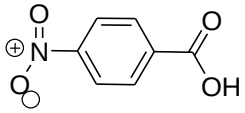


II)



Q.2	**Answer the following questions.**			
a)	Explain reaction mechanism and applications of Wolff-Kishner and Birch reduction.	8	L3	CO3
b)	Predict the products and give appropriate mechanism for following reaction.	8	L4	CO3

I)  ?

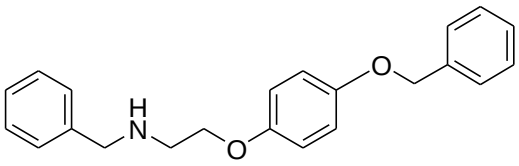
II)  ?

OR

c) Give applications of the protecting and de-protecting group for carbonyl group 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) How will you synthesis organo-Cadmium compound? What will happens when dimethyl cadmium react with acid chloride and acid anhydride respectively? — 9 — L4 — CO4

OR

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

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