Sanjay Ghodawat University, Kolhapur

2020-21

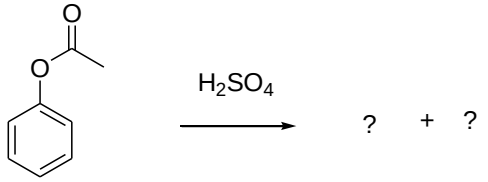
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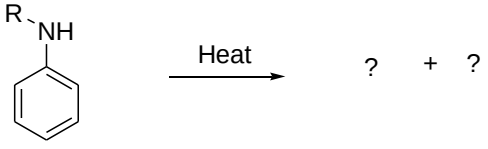
EXM/P/09/00

Year and Program: 2020-21 F Y MSc	School of Science	Department: Chemistry
Course Code: CHS501	Course Title: Organic Chemistry-I	Semester : Odd (I)
Day and Date:	RE End Semester Examination	Time:2 Hrs. Max Marks:50

Instructions: 1) All Questions are compulsory.

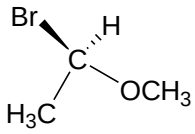
		Marks	Bloom's Level	CO
Q.1	**Answer the following questions**			
a)	i) Write a short note on free radical.	4	L2	CO1
	ii) Explain with suitable example hyper-conjugation effect.	4	L2	CO1
b)	Explain with suitable example mechanism, kinetics and stereochemistry of SN2 reactions.	8	L3	CO1
	OR			
c)	Explain with suitable example *Friedel-Crafts* acylation and alkylationreactions.	8	L3	CO2
Q.2	**Answer the following questions**			
a)	Give the comparative account of E1 and E2 elimination reaction with respect to effects of substrate structures, attacking base, the leaving group and the nature of medium.	8	L4	CO3
b)	With suitable example give the mechanism of following reactions i) *Wittig* rearrangement ii) *Curtius*rearrangement	8	L4	CO3
	OR			
c)	Predict the product and give the appropriate reaction mechanism.	8	L4	CO3

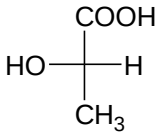
i) 

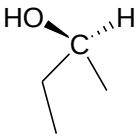
ii) 

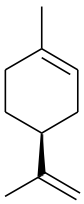
Q.3 Answer the following questions

a)	Discuss in detail following resolution method of meso compounds i) Chromatographic method ii) Conversion to diastereomers	9	L3	CO4
b)	Write the CIP rule and apply this rule to assign the Rand S configuration of following compounds	9	L4	CO4

a) 

b) 

c) 

d) 

OR

c)	Explain with suitable example, homotopic, enantiotopic and disteriotopic groups and faces.	9	L4	CO4

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