Sanjay Ghodawat University, Kolhapur

2020-21

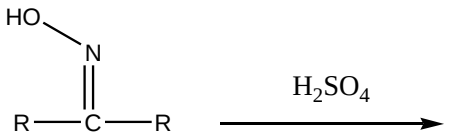
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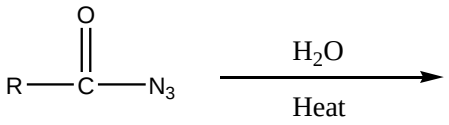
EXM/P/09/00

Year and Program: 2020-21	**School of Science**	**Department: Chemistry**
Course Code: CHS 501	**Course Title: Organic Chemistry-I**	**Semester : Odd (I)**
Day and Date: Wednesday, 05.05.2021	**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 the methods of generation of carbanion and give reactions which involves carbanion as an intermediate.	4	L2	CO1
	ii) Explain with suitable example resonance effect and inductive effect.	4	L1	CO1
b)	Explain with suitable example mechanism, kinetics, stereochemistry of SN1 reactions.	8	L3	CO1
	OR			
c)	Explain with suitable example Nitration and Sulphonationreactions.	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 types of medium.	8	L3	CO3
b)	With suitable example give the mechanism of following reactions i) Hofmann rearrangement ii) Benzilic acid rearrangement	8	L4	CO3
	OR			
c)	Predict the product and give the mechanism.	8	L4	CO3

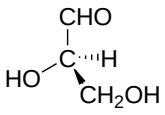
i) 

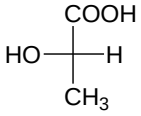
ii) 

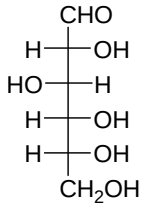
Q.3 Answer the following questions.

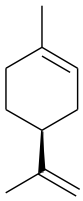
a) Discuss in detail any three methods of resolution of meso compounds. 9 L2 CO4

b) Assign the Rand S configuration to following compounds. 9 L3 CO4

a) 

b) 

c) 

d) 

OR

c) Explain with suitable example, homotopic, enantiotopic and disteriotopic groups and faces. 9 L3 CO4

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