Backlog

PRN:		Course Code :	CHS301

Third Year **B.Sc.** Backlog-ESE Examination Summer 2023

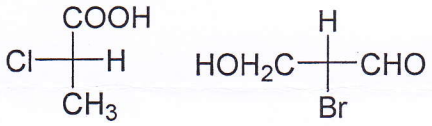
Organic Chemistry

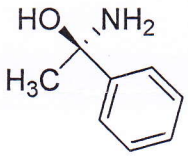
Day and Date: Monday, 12/06/2023 Max Marks: **100**

Time : 10.30 to 1.30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CLO
Q.1	**Attempt the following**			
a)	What are the regioselective and stereo selective cycloaddition reaction? Explain with a suitable example.	08	L1	CLO1
b)	What is mean by locking of confirmation? Discuss the conformation of ter-butyl cyclohexanol.	08	L2	CLO 1
c)	Discuss Baeyer strain theory. Give their stability according to angle strain.	09	L3	CLO 1
	or			
d)	i) Write Newman's and sawhorse conformation of ethane with energy profile diagram. Comment on their stability order. ii) Assign R/S configuration to the following compounds.	09	L4	CLO 1





Q.2	**Attempt the following**			
a)	Give synthesis and mechanism of substitution reaction of pyrrole.	08	L1	CLO 2
b)	Discuss the mechanism of Hantzsch Synthesis and write its applications.	08	L2	CLO 2
c)	What are the physical and chemical properties of furan? Give its synthesis and mechanism.	09	L3	CLO 2
	or			
d)	Write electrophilic substitution reactions of indole. Give fisher Indol synthesis with the suitable mechanism.	09	L4	CLO2
Q.3	**Attempt the following**			
a)	Elucidate the structure of Citral with the presence of two double bonds and acyclic structure.	08	L1	CLO 3
b)	Propose the mechanism of Hygrinic acid synthesis	08	L2	CLO 3
c)	Give synthesis of Citral by using 1,3-dibromo-3-methyl butane is the starting material.	09	L3	CLO 3
	or			
d)	Discuss the stepwise synthesis of α-terpineol.	09	L4	CLO 3

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Q.4	**Attempt the following**				
	a)	Propose the mechanism of Ibuprofen.	08	L1	CLO 4
	b)	Explain the different steps involved in synthesis of Chloroquine.	08	L2	CLO 4
	c)	Discuss the medicinal values of ranitidine with synthesis.	09	L3	CLO 4
		or			
	d)	Explain the structure and synthesis of paracetamol.	09	L4	CLO 4

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