PRN:		Course Code :	CHS301

Third Year **B.Sc.** End Semester Examination Winter 2022

Backlog

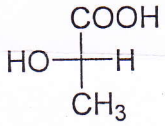
Organic Chemistry

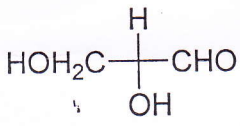
Day and Date: Monday, 12.12.22 Max Marks: **100**

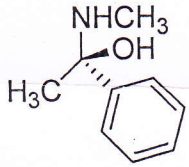
Time : 2.00 -5.00pm Duration: **03** hrs

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
a)	What are the regioselective and stereo selective 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	CLO1
c)	Discuss Baeyer strain theory. Give their stability according to angle strain.	09	L3	CLO1
	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	CLO1







Q.2	**Attempt the following**			
a)	Give synthesis and mechanism of substitution reaction of thiophene.	08	L1	CLO2
b)	How to synthesis pyrrole using Paal Knorr synthesis? Comment on its electrophonic substitution reactions.	08	L2	CLO2
c)	What are physical and chemical properties of Pyridine? Give its synthesis and mechanism.	09	L3	CLO2
	or			
d)	Discuss structural elucidation of indol. Give its synthesis with suitable mechanism.	09	L4	CLO2
Q.3	**Attempt the following**			
a)	Give the structure elucidation of Hygrine.	08	L1	CLO3
b)	Draw the structure and give the medicinal importance of the Reserpine and Nicotine.	08	L2	CLO3
c)	Write classification of terpenoids. Give one example of the each class with structure.	09	L3	CLO3
	or			
d)	What are terpenoids? Explain isoprene rule and synthesis of sesquiterpenoid.	09	L4	CLO3

Q.4	**Attempt the following**				
	a)	Draw mechanism of chloramphenicol.	08	L1	CLO4
	b)	What is the hydrogenation of oils? Give the manufacturing process of *Vanaspati* (Vegetable Ghee).	08	L2	CLO4
	c)	Give Structure and synthesis of Ibuprofen. Write the uses of Ibuprofen.	09	L3	CLO4
		or			
	d)	Define terms antipyretics, analgesics, antimalarial and antibiotic with one example and structure of each.	09	L4	CLO4

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