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## Code No: PH104 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm.D I Year Supplementary Examinations, October/November - 2019 PHARMACEUTICAL ORGANIC CHEMISTRY

PHARMACEUTICAL ORGANIC CHEMISTRY			
	Time:	3hours Max.Ma	rks:70
		Answer any five questions	
		All questions carry equal marks	
	1.a)	Write the methods of preparations of cycloalkanes.	
			[7.7]
	b)	Describe Bayer's Strain Theory and Orbital pictures of angle strain.	[7+7]
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	2.a)	Explain about different types of reactions.	
	b)	Describe about SN1 Vs SN2 solvolyses and what is the role of solvents in SN1 re	eactions.
			[7+7]
	3.a)	What is Walden inversion and What is peroxide effect?	
	b)	Describe cyclo addition reactions with suitable examples.	[8+6]
	,	5	
	4.a)	Explain the following:	
	,	i) Hyper conjugation	
		ii) Mesomeric effect.	
	h)	How do you convert the following:	
	b)		
		i) Benzene to Toluene	[6.0]
		ii) Benzene to Acetophenone.	[6+8]
	5 0)	Explain magnifyity and amontation particulture and departiculture O. M. D. dimension	
	5.a)	Explain reactivity and orientation, activating and deactivating, O, M, P directing	groups
	1 \	in electrophillic aromatic substitution.	[7.7]
	b)	Write the methods of synthesis and chemical reactions of carboxylic acids.	[7+7]
	6.	Explain the following named reactions:	
		a) Aldol Condensation	
		b) Witting reaction	
		c) Reimer tiemann's reaction	
		d) Williamson synthesis.	[14]
		S. S	
	7.a)	How do you prepare diazonium salt? Write its chemical properties.	
	b)	Explain basicity of amines.	[7+7]
	,	1 2	
	8.	Explain the methods of preparation, test for purity, assay and medicinal uses of	
		a) Aspirin	
		b) Benzylbezoate	
		c) Citric acid	
		,	F171
		d) Dimercaprol	[14]

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