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Faculty of Pharmacy

B.Pharm. Third Semester (C.B.S.) Examination

PHARMACEUTICAL CHEMISTRY—III (ORGANIC)

Paper—II (3T-2)

Time: Three Hours]

[Full Marks: 80

N.B. :— (1) Question No. **1** is compulsory.

- (2) Solve any **FOUR** questions from the remaining.
- (3) Draw neat labeled diagram wherever necessary.
- 1. Solve any **FIVE** of the following: $5\times4=20$
 - a) Write the mechanism of Hofmann degradation reaction.
 - (b) Justify that SN 1 reactions are accompanied by rearragement.
 - (c) Explain conformation of n-butane.
 - (d) Why cyclopropane always undergo ring opening reaction ?
 - (e) State how heat of hydrogenation proves unusual stability of benzene.

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	(f) Explain any two reactions of carboxylic acid. (g) Aldehydes are more reactive than ketone. Explain.		7. D	Discuss the electrophilic aromatic substitution reaction of benzene with :		
2.						
	(a) Discuss Aldol condensation with suitable exa	mnles		(a)	Nitration	
	(a) Biseass That condensation with suitable exa	8		(b)	Sulphonation	
	(b) Explain Cannizzarro's reactions with suitable exa			(c)	Friedel-Craft's alkylation	
	(b) Explain Califizzatio's reactions with suitable exc	7 _		(d)	Friedel-Craft's acylation	
3.	Give detailed account of SN ² reaction including mech			(e)	Halogenation.	15
	orientation and reactivity.					
4.	Outline the laboratory synthesis of following from					
	benzene:					
	(a) p-chloro benzoic acid					
	(b) p-toluidine					
	(c) Diphenyl methane					
	(d) m-bromo phenol					
	(e) Styrene.	15				
5.	Write in detail about method of preparation of alkenes					
	using suitable examples.	15				
6.	(a) Elaborate the detailed account of E2 mechanism					
	supporting evidences and sterochemistry.	8				
	(b) Write a short note on Hinsberg test.	7				

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