B. PHARMACY SECOND YEAR FIRST SEMESTER - 2024

PHARMACEUTICAL ORGANIC CHEMISTRY - II

Time: 3 hours Full Marks: 75

Answer ay FIVE taking at least two from each group

Group - A

1.	Write notes on:	$[3 \times 5]$
	(a) Cumene-phenol process; (b) Acidity of nitrophenols; (c) Steric inhibition of resonance	
2.	Give synthesis of:	$[3 \times 5]$
	(a) p-Dinitrobenzene; (b) m-Nitrophenol; (c) o-Bromoaniline	
3.	Discuss:	$[3 \times 5]$
	(a) Azo and diazo compounds; (b) Phenolic ethers; (c) Reactions of diazonium sa	ılts.
Group B		
4.	a) How will you prepare cycloalkanes using Wurtz reaction, Clemmensen Reduct	
	and Dieckman Reaction?	[9
	b) Discuss Bayer Strain Theory of cycloalkanes. Or	[6
	Sachse Mohr's concept of cycloalkanes.	
5.	a) Conformation of cycloalkanes.	[6
	b) Haworth synthesis of Naphthalene	[5
	c) Naphthalene undergoes electrophilic substitution reaction at both alpha and b	eta
6.	positions. But alpha product predominates-why?	[4
0.	Answer any three a) Sulphonation of Naphthalene	r <i>e</i>
	b) Friedel-Crafts Acylation of Naphthalene	[5
	c) Reduction of Naphthalene	[5 [5
	d) Sulphonation and oxidation of Anthracene	[5
		r.