- (b) (i) Write a note on oxidation of cyclohexanols.
 - (ii) Discuss the conformation and stereo chemistry of n-butane. (5+5)
- 10. (a) Write notes on:

(3+4+3)

- (i) Sulphur ylides
- (ii) Acylation of enamines
- (iii) Robinson annulation reactions.

Or

(b) Write notes on:

(4+3+3)

- (i) DIBAL
- (ii) Baker yeast
- (iii) Trimethyl silyl chloride.

S.No. 339

12PCH04/ 12POC04

(For the candidates admitted from 2012-2013 onwards)

M.Sc. DEGREE EXAMINATION, APRIL/MAY 2018.

Second Semester

Chemistry

ORGANIC CHEMISTRY - II

(Common for Organic Chemistry)

Time: Three hours

Maximum: 75 marks

PART A — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions.

1. (a) Explain E₂ mechanism.

Or

- (b) Write notes on cope elimination.
- 2. (a) Explain Huckel rule with examples.

Or

(b) Discuss antiaromatic compounds.

						A SURE CONTRACTOR OF THE STATE
		ain Gattermann – Kochreaction.	-7.	(a)	Exp	lain the aromaticity in: $(5+5)$
LEGIU		Or			(i)	Annulens
(b)	Writ	e notes on Chichibabin reaction.		1	(ii)	hetero cyclic compounds.
4. (a)	Which form of cyclohexane is stable and why?					Or in the second of the second
				(b)	Wri	te notes on : $(3+4+3)$
		Or			(i)	non aromatic compounds
(b)	Explain the stereochemistry of cis and trans decaline.				(ii)	anti aromatic compounds
					(iii)	non-benzenoid compounds.
5. (a)	Explain the Reagent 9BBN and its uses. Or Write notes on DCC.		8.	(a)		Discuss the orientation and reactivity of chloro benzene and Toluene for
Adviso 77					electrophilic substitution reaction.	
(b)					(ii)	Write notes on Ipso attack. (6 + 4)
	PART B — $(5 \times 10 = 50 \text{ marks})$					Or
		Answer ALL questions.		(b)	Exp	lain: $(5+5)$
0 ()	<i>(</i> '')	and and Paper State of Asset			(i)	S _N Ar mechanism
6. (a)	(i)	Explain E ₁ CB mechanism			(ii)	Benzyne mechanism.
(b)	(ii)	i) Differentiate Hofmann and Saytzeff rule of elimination. (4 + 6)	9.	(a)	(i)	Discuss the stereochemistry of 1, 3 and 1, 4 dimethyl cyclohexane.
	(i) Write notes on the completion between elimination and substitution.				(ii)	Discuss the conformation of ethylene
					glycol. (6 +	
	(ii)	Explain pyrolytic elimination. (5 + 5)				Or

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