	Enrollm	ent No:		Exam Seat No:	
				UNIVERSITY	
			Winter Exa	mination-2018	
	Subject	Name :	Organic Chemistry-I		
	Subject	Code: 5	SSC01OCH1	Branch: M.Sc. (Chemistry)	
	Semeste	r:1	Date: 28/11/2018	Time: 02:30 To 05:30 Marks: 7	70
	(2) (3)	Use of P Instruction Draw ne	rogrammable calculator and a ons written on main answer be at diagrams and figures (if ne- suitable data if needed.	· · · · · · · · · · · · · · · · · · ·	
Q-1	b. c.	Explain Explain Define: Write c withdra Comple	t the following questions Ambient Nucleophile with e t-Butyl chloride example by Coupling reaction	TION – I xample. using heterolytic bond fission. eduction with electron donating and electron	(07) 01 01 01 01
Q-2	g. a. b.	Attemp Describ (i) Refo	et all questions		01 (14) 07 07



a. Describe the following reactions with mechanism and application.

(i) Bouveault-Blanc reduction reaction (ii) Leuckart reaction

b. Write a brief note on Michael Addition reaction.

OR

Q-2

Attempt all questions

(14)

07

07

Q-3	Attempt all questions				
	a.	Write a note on Wolff-Kishner reaction.	07		
	b.	Explain Vilesmeier - Haack reaction with mechanism and application.	07		
		OR			
Q-3		Attempt all questions			
	a.	Write a note on Mukaiyama aldol reaction.	07		
	b.	Explain Horner-Wadsworth-Emmons reaction with mechanism and application.	07		
		SECTION – II			
Q-4		Attempt the following questions	(07)		
	a.	Draw the structure of Dess-Martin periodinane.	01		
	b.	Draw the structure of Cyclen.	01		
	c.	Write the preparation of Lithium diisopropylamide (LDA).	01		
	d.	Write a full form of CAN.	01		
	e.	Draw the structure of DCU which is hydrated form of DCC.	01		
	f.	Write the structure of complex of H ₃ O ⁺ with 18-crown-6.	01		
	g.	Complete the following rearrangement.	01		
Q-5	a. b.	Attempt all questions Describe the note on Neber rearrangement. Complete the following reaction with mechanism and application.	(14) 06 04		
	c.	Explain briefly about N , N '- Dicyclohexylcarbodiimade (DCC) reagent. OR	04		
Q-5		Attempt all questions	(14)		
	a.	Describe the note on Wagner-Meerwein rearrangement.	06		
	b.	Complete the following rearrangement with mechanism and application.	04		
	c.	Explain briefly about Wilkinson's catalyst.	04		
Q-6		Attempt all questions	(14)		
-	a.	Write a brief note on Suzuki coupling and Stille coupling reactions.	07		
	b.	Write a note on Crown ether.	07		
		OR			
Q-6		Attempt all questions	(14)		
-	a.	Write a brief note on Sonogashira coupling and Glaser coupling reactions.	07		
	h.	Write a note on Dess-Martin Periodinane reagent.	07		

