	Enrollment No:				Exam Seat No:					
					I UNIVERSITY	V				
	Winter Examination-2018									
	Subject Name: Stereochemistry in Organic Synthesis									
	Subject	Subject Code: 4SC02SOS1			Branch: B.Sc. (Microbiology)					
	Semester	r: 2	Date:	25/10/2018	Time: 02:30 To 04:30	Marks: 50				
	(2) 1 (3) 1	Use of Pro Instruction Draw near	ns written of the diagrams	on main answe	any other electronic instrumener book are strictly to be obeyed necessary) at right places.	-				
Q-1		Attemp	t the follo	wing question	s:		(10)			
	a)	Define:	Carbocatio	on			01			
	b)			amples of Nuc	leophile.		01			
	c)		Tautomeri				01			
	d)		Hybridisat				01			
	e)		Streochem	•			01			
	f)			of diastereome	ers.		01			
	g) h)		ne Huckel's	s ruies. pound with ex	ampla		01 01			
	i)	-		-	tic bond cleavage with proper e	xamples.	02			
Atte	empt any f	four ques	stions fron	1 Q-2 to Q-8						
Q-2	,	_	t all quest				(10)			
	a)			tration process			05			
	b)	Explain	Friedel Ci	afts Acylation	reaction of benzene with mech	anism.	05			
Q-3			t all quest				(10)			
	a)		note on Ca				05			
	b)	Explain	SN' reacti	on briefly.			05			
Q-4	•		t all quest		1 2		(10)			
	a)	Write th	ne differend	ces between of	SN ¹ and SN ² reaction mechanis	sm.	05			



b) Explain Unimolecular (E1) and Bimolecular (E2) elimination reaction with

a) Explain the structure of ethane molecule based on hybridization concept.

suitable examples.

Attempt all questions

Q-5

05

(10)

05

	b)	Write a note on keto-enol tautomerism.	05
Q-6		Attempt all questions	(10)
	a)	Explain the rules for aromaticity and antiaromaticity.	05
	b)	Write a note on	05
	•	(1) Bond angles and (2) Bond distance	
Q-7		Attempt all questions	(10)
	a)	Discuss the Fischer projection of organic compounds with stepwise process.	05
	b)	Write a note on hyperconjugation with suitable examples.	05
Q-8		Attempt all questions	(10)
	a)	Discuss R, S, erythro and thereo nomenclature for stereoisomers with proper examples.	05
	b)	Explain stereochemistry of biphenyls compounds.	05

