Ŀnr	Enrollment No:						
			C.U	.SHAH	UNIVERSITY		
			Su	mmer Exa	amination-2018		
Sub	ject N	lame: C	Organic Ch	emistry-II			
Sub	ject (	Code: 48	SC04OCH1	[	Branch: B.Sc. (Chemistry, Physics)		
Sen	nester	: 4	Date:	26/04/2018	Time: 10:30 To 01:30 Man	rks: 70	
Inst	ructio	ns:					
			•		y other electronic instrument is prohibited	1.	
					ook are strictly to be obeyed.		
			_	_	cessary) at right places.		
	(4) P	assume s	suitable data	i ii needed.			
-1		Attem	ot the follo	wing questions:		(:	
	a)	How m	any isopren	e units are present	t in Diterpene?	(	
	b)	Give or	ne example	of Curtius reaction	on.	(	
	c)	Define	Alkaloids			(	
	d)	Define	: Isoprene ru	ıle		(	
	e)			of atenolol.		(	
	f)				rphine and% of Cinchona.	(	
	g)			of geranic acid.		(	
	h)				for the isolation of essential oil from plan		
	i)			of methyl orange		(	
	j)			structure of Nicot		(	
	k)			•	−OCH <sub>3</sub> group can be detected.	(	
	l)		stas-otto p		rangant	(	
	m) n)		the term 'D		s reagent.	(	
	11)	Define	me term D	rugs .		(	
tempt	any f	our que	stions from	n Q-2 to Q-8			
-2		Attem	pt all quest	ions		(2	
	<b>a</b> )	Discuss	s Mannich r	eaction with mec	hanism and give its applications.	(	
	b)	C: 41-		and its application	CTI C	(	



a) Discuss Hoffmann rearrangement with mechanism and give its applications.

Q-3

**Attempt all questions** 

**b)** Give the synthesis and uses of Malachite green.

**(14)** 

**(7)** 

**(7)** 

Q-4		Attempt all questions	(14)
	a)	Discuss Fries rearrangement with mechanism and give its applications.	<b>(7</b> )
	<b>b</b> )	Give the synthesis and uses of Alizarin.	<b>(7</b> )
Q-5		Attempt all questions	(14)
	a)	Explain the classification of alkaloids on the basis of sources and presence of	<b>(7</b> )
	<b>b</b> )	heterocyclic ring with suitable examples.  Discuss Michael reaction with mechanism and application.	<b>(7)</b>
Q-6		Attempt all questions	(14)
	a)	Discuss on the constitution of Coniine.	<b>(7</b> )
	<b>b</b> )	Give the evidence for the presence of -CHO, Isopropylidene, Acyclic structure,	<b>(7</b> )
		-C=C- group in Citral.	
Q-7		Attempt all questions	(14)
	a)	Give the synthesis of Citral.	<b>(7)</b>
	<b>b</b> )	Write a note on general procedure for determining structure of terpenoids.	<b>(7</b> )
Q-8		Attempt all questions	(14)
	a)	Explain two types of the classification of terpenoids.	<b>(7)</b>
	<b>b</b> )	Discuss Grignard reaction with mechanism and give its applications.	<b>(7)</b>

