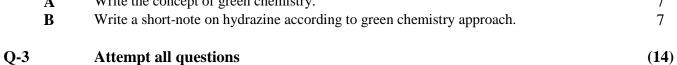
]	Enrolln	nent No:	Exam Seat No:										
		C.U.SHA	<b>H UNIVERSITY</b>										
	<b>Summer Examination-2016</b>												
;	Subject	Name: Analytical Chemistry											
;	Subject	Code: 5SC02CHC4	Branch: M.Sc.(Chemistry)										
;	Semesto	er: 2 Date: 11/05/2016	Time: 10:30 To 01:30 Marks: 70										
		Draw neat diagrams and figures Assume suitable data if needed.	· · · · · · · · · · · · · · · · · · ·										
Q-1	Attempt the Following questions												
	a.	What is called sustainable chemis	stry?	1									
	b.	at the beginning of green chemistry appraoch?											
	c.												
	d. e.	Give the full form of TDS para	-	1 1									
	f.	<u>*</u>											
	g.	ameter from water analysis	1										
Q-2		Attempt all questions		(14)									
	A	Write the 12 principles of green of		7									
	В	Explain in brief: the recent trends	s in green chemistry approach.	7									
0.2		A44 4 10 41	OR	(4.4)									
Q-2	A	Attempt all questions Write the concept of green chemi	strv	( <b>14</b> )									
	A D	White a short note on by the line	on which to come about other or work	7									



Q-3 Attempt all questions
A Write a short-note on lactide according to green chemistry approach.
B Explain different type of classification of environmental chemistry.

OR

(14)

Q-3 Attempt all questions
A Explain the synthetic techniques according to green chemistry.

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	B		Explain the Carbon dioxide as blowing agent according to green chemistry.									
					SECTIO	N - II						
Q-4			Attempt the Following questions									
		a.										
		b.	·									
		c.	•									
		d.	Define: confidence interval.									
		e.	Give the full form of CETP.									
		f.	Give the names of any two preservatives for polluted water.									
	g. Give the full form of DO parameter from water analysis.											
Q-5 Attempt all questions									<b>(14)</b>			
	A Each of the following sets of data has what appears to be an outlaying result. Apply the Q test (90 % confidence) to determine whether this value should be											
				ejected. For C								
			A	В	С	D	Е	F				
			75.97	14.64	31.42	31.42	9.22	9.22				
			76.36	14.41	31.40	31.40	9.06	9.06				
			76.04	14.46	31.04	31.04	9.20	9.20				
			76.13	14.14		31.44		9.24				
	В		Explain dete	erminant and in	determinant e	rrors.			7			
			ī									
					O	R						
Q-5			Attempt all	questions					(14)			
	A		Explain methods for minimization of errors.  Given the following set of weights 29.8, 30.2, 28.6 and 29.7 mg. Calculate the average deviation and the standard deviation of the individual values and the									
	B											
			average dev	viation and the	e standard de	viation of th	e mean. Exp	ress these as				
	absolute and relative values.											
			${\chi_{i}}$	$\chi_i - \overline{\chi}$ $(\chi_i - \overline{\chi})^2$								
			29.8		0.2	0.04						
						0.36						
			30.2		0.6							
			28.6		1.0	1.00						
			29.7 \(\Sigma_{119.2}\)		$\frac{0.1}{\Sigma_{1.0}}$	0.01 Σ1.41						
			$\sum 118.3$		∑1.9		<u></u>	1.41				
<b>Q-6</b>	-6 Attempt all questions								(14)			
	A		Write a note	Write a note on photochemical smog chemistry								
	B		Write a note on photolytic cycle and importance of particulates.									
	OR											
<b>Q-6</b>	-6 Attempt all Questions								(14)			
	<ul> <li>A Describe the principal of water analysis and at least 2 examples of its parameters.</li> <li>B Write a short note on energy balance between earth-atmospheric systems.</li> </ul>								7			
									7			

