## C.U.SHAH UNIVERSITY Summer Examination-2018

## Subject Name: Advanced Chemistry

Subject Code: 5SC03AD	C1	Branch: M.Sc.(Chemistry)		
Semester: 3	Date: 28/03/2018	Time: 02:30 To 05:30	Marks: 70	

## **Instructions:**

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

## **SECTION – I**

Q-1		Attempt the Following questions	(07)
-	a.	Define Nanoparticles	01
	b.	Define Auxochromes.	01
	c.	Define Cheminformatics.	01
	d.	Define Chromophore and Auxoxhromes	02
	e.	Write the Uses for nanotubes	02
Q-2		Attempt all questions	(14)
	Α	Write the Green and conventional synthesis of Paracetamol and Cipral.	05
	B	Discuss the chemical vapor deposition method.	05
	С	Write a note on applications of Nanoparticles.	04
		OR	
Q-2		Attempt all questions	(14)
-	Α	Discuss the synthesis of nanoparticles.	05
	В	Write the synthesis and uses of Methayl orange and Aurin.	05
	С	Discuss the types of nanoparticles.	04
Q-3		Attempt all questions	(14)
	Α	What are dyes? Discus the types of dyes.	08
	B	Discuss the Non-Textiles uses of dyes.	06
		OR	
Q-3		Attempt all questions	(14)
	Α	Illustrate the advances of synthetic dyes.	08
	B	Write notes on:	06
		1. Diamonds black 2. Malachite green	

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<b>SECTION</b> -	- II

Q-4		Attempt the Following questions	(07)
-	a.	Define Green Chemistry.	01
	b.	Gives difference between journal and Patents	01
	c.	What are catalysts?	01
	d.	Define polymers and polymerization	02
	e.	Draw the structure of Adipic acid and Styrene	02
Q-5		Attempt all questions	(14)
-	Α	Discuss the Oxidation catalysts.	07
	В	Write a note on Green synthesis-phase transfer catalyst.	07
		OR	
Q-5		Attempt all questions	(14)
	Α	Write a note on polymer supported catalysts.	07
	В	Discuss the applications of Microwave Chemistry.	07
Q-6		Attempt all questions	(14)
χv	Α	Write a note on Green synthesis of	08
		1. Paracetamol	
		2. Ibuprofen	
	В	Discuss the Use & Prospects of cheminformatics.	06
		OR	
Q-6		Attempt all Questions	(14)
	Α	Discuss the Use of computer in chemistry and industry.	08
	B	Write notes on :	06
		1. Intellectual property rights 2. Regulatory affairs.	

