C.U.Shah Science College B. Sc Sixth Semester Examination Nano Materials and Nanotechnology (Elective-311)

Date: 22/03/2017	Seat N	Seat No.	
Time:	Total	Marks	50+10
Answer the following question			
1. Explain Sol Gel Method ar	nd Sono Chemical Synthesis for	the Prepara	ation of
Nanomaterials.			(13)
2. Discuss Laser Vaporization	n method and Chemical Reduct	ion Method	for the
Synthesis of Nanomaterial	s.		(12)
3. Write a note on Graphene	and Carbon Nanotubes.		(13)
4. Write about Scanning Elec	ctron Microscope and Give diffe	rence betw	een Optical
Microscope and Electron	Microscope.		(12)
5. Answer the following qu	estion in short		(10)
(a) What are quantum dots?			
(b) Size of Nanoparticles rai	nge betweennm ton	m.	
(c) What are sols?			
(d) Which type of hybridizat	tion of carbon atom in Bucky ba	11 ?	
(e) Give name of one Scienti	st associated with Nano science.		
(f) Give one use of Zinc oxid	le in context of Nano materials.		
(g) What is the full form of l	DLS?		
(h) What is full form of STM	1?		
(i) Mention the name of two	methods for Characterization	of Nanomat	erials
(j) Define: Nanotechnology.			