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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VIII (NEW) - EXAMINATION – SUMMER 2018			
Subject Code: 2182309/2182312 Date: 02/05/2018			
Subject Code: 2102509/2102512 Date: 02/05/2010 Subject Name: Nano Polymer Technology(Departmental Elective - III)			
Time: 10:30 AM to 01:00 PM Total Marks: 70			
Instructions:			
	1.	Attempt all questions.	
	2.	I v	
	3.	Figures to the right indicate full marks.	MARKS
Q.1	(a) Define Nanotechnology.	03
C	(b		04
	(c		07
Q.2	(a	What Does Nano Really Mean?	03
	(b		04
	(c	carbon nanofibers.	07
	,	OR	07
0.2	(c		07
Q.3	(a	,	03 04
	(b	POSS molecule.	
	(c) Write the origin, properties and application of carbon nanosilica.	07
		OR	
Q.3	(a) Write about the classification of carbon nanotubes.	03
	(b) Write a note on Small-diameter carbon nanotubes (SDNTs).	04
	(c	· · · · · · · · · · · · · · · · · · ·	07
Q.4	(a	· · · · · · · · · · · · · · · · · · ·	03
	(b		04
	(c	Characteristics	07
e (,	OR	
Q.4	(a	Write about the processing methods for nanoparticles and classify them.	03
	(b	 List various techniques to characterize polymer Nanomaterials. 	04
	(c) Explain Transmission Electron Microscopy with proper diagram.	07
Q.5	(a	0	03
	(b	Write a short note on Energy-dispersive x-ray spectroscopy (EDS).	04
	(c		07
Q.5	(a		03
X .2	(b	• • • • • • • • • • • • • • • • • • • •	03
	(c	· · · ·	07
	× .		