Set No. 1



Code No: **R42033**

		IV B.Tech II Semester Supplementary Examinations, July/August - 2017 NANO TECHNOLOGY	
		(Mechanical Engineering)	
Time: 3 hours Max. Marks:			ks: 75
		Answer any FIVE Questions	
		All Questions carry equal marks *****	
1	a)	What is nano technology? Why Nano technology?	[8]
	b)	Write the basics of quantum mechanics.	[7]
2	a)	Write the applications of Silicon Carbide and its Properties	[8]
	b)	What are the Problems of Preparing nano Particles	[7]
3	a)	Explain the weibull theory.	[7]
	b)	Write the Nano powder preparation and characteristics .What are the steps required to measure the flexural strength.	[8]
4	a)	Explain the preparation of nano particles and conductivity measurements.	[8]
	b)	Write the Electro optic and acousto optic effect	[7]
5	a)	List out the advantages of electro deposition for the synthesis of nano	503
	1.)	materials	[8]
	b)	Discuss the General principles of Sol-Gel process	[7]
6	a)	Explain about Scanning Electron microscopy	[8]
	b)	Write about X-Ray Diffraction.	[7]
7	a)	What are the Different types of inorganic materials used for the synthesis of hybrid nano-bio assemblies	[8]
	b)	Describe the Current status of nano Biotechnology	[7]
	2)		Γ,]
8	a)	Explain the Nanotechnology in Diagnostics applications	[8]
	b)	Write about Molecular Nanomechanic.	[7]

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