M.SC. (Microbiology) (CBCS Pattern) Second Semester CBCS **PSMBT-108 - Nano microbiology Paper-IV**

	Pages: 1 ne: Three Hou	GUG/W/1 **********************************	8/11219 Marks: 80
	Notes: 1.	All the questions are compulsory and carry equal marks.	
1.		ribe the manipulation of matter at the molecular level to create new products with by atom precision.	16
		OR	
		note on followings.	
		Nanoscale lithography.	8
	b)]	Polymer Nano-electronics.	8
2.	Descr	ribe the followings.	
	a)]	DNA octahedron.	8
	b)]	Nanostructured silicon.	8
	177 '4	OR	
		e note on followings.	0
	,	Viruses as Nano particles.	8
	b) (Carbon Nanotubes.	8
3.	Desci	ribe the biosynthesis metalloid containing Nanoparticles by aerobic microbes.	16
		OR	
	Write	e note on followings.	
	a)	Synthesis of Nanoparticles by fungi.	8
	b) (Characteristics and applications of Quantum dots.	8
4.	Descr	ribe the production of sulfur – free Nano- particles by yeast.	16
		OR	
		ribe the followings.	
		Functional Nanomaterials with Anti-viral activity.	8
	b) 1	Nano carbon ball as deodorizer in fermentation process.	8
5.	Write	short note on followings.	
	a)]	E-Beam lithography.	4
	b) (Cubosomes.	4
	c) .	Applications of Quantum dots in Immuno-Nanotechnology.	4
	d) 1	Nano-Particle based Immobilization assay.	4
