210		210	210	210	210	210	) 2	210	210
	F	Registra	tion No :						
	Tat								DTask
	l Ota	ai numd	er of Pages : 01					PB	B.Tech T8J201
210		210	210 <b>8<sup>tr</sup></b>	-	ular Examin OTECHNOL CH : BIOTEC	OGY <sup>210</sup>	19	210	210
					Marks : 100 le : 3 Hours				
					ODE : F006				
	Ar	nswer Q	uestion No.1 (Pa		ompulsory, om Part-III.	any EIGHT	from Part-II	and any	' TWO
210		210	₂The fig	ures in the righ		in indicate	marks.	210	210
					Part- I				
	Q1		ly Short Answer at is EPR effect?	Type Questions (	Answer All-1	0)			(2 x 10)
		<b>b</b> ) Wri	ite two examples o						
			e few lists of enzy w Hybrid materials			for nanotech	nology applica	tions	
210		e) Wh	at are polymeric n	anocontainers? W	/rite its use?	210		210	210
		<b>g</b> ) Hov	w respirocytesact a w Quantam dots u			mblies with d	esigned proper	ties	
		,	at are Milcelles? y C-60 molecules	are called bucky b	alls? Give rea	isons?			
		•	fine lithography teo		Part- II				
	Q2		ly Focused-Short		uestions- (Ar	nswer Any E	ight out of Tw	velve)	(6 x 8)
210			plain the steps of c erentiate between			210 n nanotubes.		210	210
		c) Brie	ef explain synthesi at are r-DNA tech	s and purification	of cyclic peptie	des.			
		e) Dis	cuss the various a	pplications of SEM	M,TEM and AF	M in Nanote			
			plain the applicatio cuss micro fabrica		0,	man health.			
		<b>h)</b> Mo	dern biomaterials- plain the role of na	• •		Support you	r answer with a	suitable	
210		exa	ample	210	210			philanic	210
		k) Bio	ite in detail about r chips connecting t erentiate between	o the DNA compu	ters. A tool for	biomedical a	application. jus	tify	
	Part-III Only Long Answer Type Questions (Answer Any Two out of Four)								
210	Q3		Iy Long Answer T scribe the possible					tools?	<b>(16)</b> <sub>210</sub>
	Q4		at do you mean b e of energetics, en	-		embly? Expla	ain with examp	les the	(16)
	Q5		at are biosensors signing of biosenso	•	Inction? How	does nanote	chnology supp	port the	(16)
210	Q6	210 Hov	w can biomolecule	s be used for nan	omaterial asse	embly? Discu	SS.	210	(16) <sub>210</sub>

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