0	210) 210	210	210)	210	210	210
	Reg	istration No :						
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0	210) 210	BRA T Ma Q	BIOTECHN .NCH : BIO ime : 3 Hou ax Marks : .CODE : F7	OLOGY TECH Irs 100 '65	. 210	210	210
	Ansv	ver Question No.		is compuls from Part-I	-	y eight from P	art-II and any	two
0	210	The	figures in the ric			dicate marks.	210	210
	Q1 a) b) c)	Explain the term Define top down	wer Type Questio quantam dot? and bottom up app al entities that hav	roach.	·	nanostructures.		(2 x 10)
0	d) e) f) g) h) i)	Why C-60 molect What do you und Write the principle What are lab-on- Which aminoacid What do you mea	ules are called as the erstand by the terre of scanning probe a chip devices?Wr s provide sharp basen by NANO? List ananoparticle in cyto	bucky balls? In magnetoso e technique? ite its use in ands/ turns ir any two proc	Give read omes? nanobioto protein desses to	sons? 210 echnology? chain?	210 owders?	210
0	Q2 210 a) b)	Only Focused-S What are the vari	hort Answer Type ous applications o il about the princip	Part- II e Questions f nanomateri	- (Answ als in bio	logy and medici	ne?	(6 x 8) ≥10
0	c) d) e) f) g) h) i)	Differentiate between Explain MEMS a Write the techniq Discuss the class Briefly explain type What are the tool Explain the imponanoscale.	ction and application to the selfassembly and being and ues involved in the sification of nanomates and various propertions are used for making ortance of size and signification.	and self orgatheir types as microbial sy aterial in detection of cannostructured shape departments.	anisation nd poten nthesis o ail? arbon nai res. Expla pendence	of nanostructure tial applications? of nanoparticle? 210 notubes? ain? e of material pro	210	210
	k) I)	, ,						
0	210		210	21()	210	210	210
	Q3	Discuss how the	ver Type Question e electron microso Compare the a of nanomaterials.	copic technic	ques are	useful in char		(16)
	Q4	Describe the vari	ous processes of li	ithography fo	r nanofa	brication?		(16)
0	Q5 210	Describe briefly drug delivery sys	the polymeric nar tem?	nocontainers	? Explair	n how these ma	aterials usedin	(16) 210
	Q6	Discuss the chare	ecterization,physic	al properties	of nanov	vires and their a	pplication?	(16)