	210	210	210				210				210		210	210
R	egis	tration No :												
Tota	l Nu	mber of Pages : 02	)											B.Tech
	210	210		21		. ,		210		4.	210	0.40	210 <b>P</b> l	ET6J00310
		6 <sup>th</sup> Se	mes		_			k Exa UNIC			n 201	8-19		
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					M	ax N	larks	s : 10	0					
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Ans	ver (	Question No.1 (Par	't-1) <sup>,</sup>	whic		-				eigh	t fror	n Part	-II and any t	wo from
	210	210		Z1	U	Ρ	art-II	<b>1.</b>			210		210	210
		The fig	ures	in t	he ri	ght l	hand	mar	gin i	indic	ate n	narks.		
						F	Part-	I						
<b>Q1</b>		Only Short Answer	Тур	e Que	estio	ns (A	Answ	er All	l-10)					(2 x 10)
	a)	What is the function								•				
	b)	What are the technic	•			•			•					210
	c)	In a cellular network Why?	, amo	ong-a	∘nan	аоп с	call ar	nd∘a r	iew c	call, v	/nicn (	one is (	given priority?	210
	d)	Define coherence tir	ne an	nd col	nerer	nce b	andw	idth.						
	e)	How is propagation	path	n los	s re	ated	to th	ne re	ceive	d się	gnal p	ower	in the mobile	
	Ð	communication?	Jom	Цом	it o	an ha		idad i	in oo		- onro	ad ana	otrum collular	
	f)	Define near-far prob system?	nem.	HOW	II C	an be	e avo	iaea	ın ca	se o	sprea	ad spe	ctrum cellular	
	g)	State different types	of to	polog	ies c	f WL	AN.	210			210		210	210
	h)	What are the goals of	of 4G	syste	ems?									
	i)	What are the feature						_						
	j)	What are main subs	ysten	ns of	GSM	l arch	nitectu	ıre?						
						ı	Part-	II						
<b>Q2</b>		Only Focused-Sho	rt An	swer	Тур	e Qu	estio	ns- (	Ansv	ver A	ny Ei	ght ou	t of Twelve)	(6 x 8)
	<b>a)</b> 0	Explain frequency ho			_	•					210		210	210
	b)	What is the need sectorized cells.	of ce	ell se	ctorii	ng? I	Expla	in foi	r wo	rst c	ase ir	iterfere	ence with 60°	
	c)	Discuss the cost 23°	l Mod	del.										
	ď)	Discuss different typ	es of	fadir	ng ba	sed o	on mu	ultipat	h tim	ie-de	lay sp	read. E	Explain factors	
		influencing small sca		_	0.1.1	ı				10				
	e)	What is co-channel in Derive an expression									tauc	or ovn	orionces from	
	<b>f)</b> 210	first file of co-chan suitable sketch.												210
	g)	What do you mean b	•		•		•	•			•			
	h)	What is handoff in a handoff.	cellu	ılar s	yster	n? W	hy is	hand	loff u	sed?	Ment	ion diff	erent types of	
	i)	What are the main d	iffere	nces	betw	een f	the IE	EE 8	02.1 <sup>2</sup>	1b (W	/i-Fi) a	and Wil	MAX?	
	j)	Why is cell splitting r								•	•			
							•						. •	210
	<b>k</b> )	What is the ZigBee t	echin	ology	y Di	scuss	briei	ŧy∵vv	nie s	ome	01418 8	applica	tions 210	210

210	21	0	210	210	210	210	210	210		
					Part-III					
	Q3	What a	Only Long Answer Type Questions (Answer Any Two out of Four) What are the different techniques used for increasing the capacity and improving the coverage in cellular system? Explain them.							
210	<b>Q4</b>	Derive at a dis	and explain the stance d and re	e Free space pro late this power to	210 pagation model to Electric field.	210 to determine the I	received power	<b>(16)</b> 210		
	Q5	Explaii	n in detail abou	t the system and	protocol archited	cture of IEEE 802	.11.	(16)		
	Q6	Calcul	ate the capacit	y and frame effic	iency of a TDM	A System. Derive	a comparison	(16)		
210	21	WITH D	S-CDMA syster	n capacity.	210	210	210	210		
210	21	0	210	210	210	210	210	210		
210	21	0	210	210	210	210	210	210		
210	21	0	210	210	210	210	210	210		
210	21	0	210	210	210	210	210	210		
210	21	0	210	210	210	210	210	210		
210	21	10	210	210	210	210	210	210		