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	Code No: 11		and the second			R13	
	B.	Tech IV Year CELI (Elec	I Semester Exa ULAR AND M		ngineering)		****
Company of the Company	Time: 3 Hou	irs				ix. Warks: 75	
	Part Part Part	A is compulson B consists of	5 Units. Ans	s 25 marks. An	swer all questicular question from sub questions.		4 X 4 X 4 X 4 X 4 X 4 X 4 X 4 X 4 X 4 X
	er to the		·P	ART- A			
	b) Define	is Grade of Serve (i) Coherence access talk.	vice? [] time (ii) System	Capacity	FIG.	(25 Marks) [2] [3] [2]	W
			olarization and ( age? Define foli		an antenna system	n. [3] [2]	
	f)What i g)What i h) Write i) What i	is the minimum is meant by freq short notes on so meant by hand	separation requuency in anagem	ired between cell nent :::::::::::::::::::::::::::::::::::	site antennas? Ex		*****
T.,			•			AV. 421	
* * * * * * * * * * * * * * * * * * *	#	X	* * * * <b>#</b> ************************************	ART-B	7 A M C 0 X C A W W X 8 A A A A A A A X P P P C A Y	(50 Marks)	* * * * * * * * * * * * * * * * * * *
	2. What a any two		echniques used (	-	acity of a cellular	r system? Explain [10]	
				OR nidirectional ante es of 1G and 2G o		[5+5]	454 4
	*	O				ver located at the	
	1	~	-	, -		nterfering signals m designed with	
****  * * *  * * *  * * *  * * *  *		****	ssume path loss		Ta condita, syste	m designed with	2
			djacent channel	interference.		[6+4]	
	5.a) Write s	hort notes on: i	) space diversity	<b>OR</b> ii) Time diversi	ty.		
X * X X X X X X X X X X X X X X X X X X	b) Discuss	how antenna h		: 1: :	erference of cellu	nlar system.[5+5]	* * * * * * * * * * * * * * * * * * * *
* X 2 9 4		-	ini i oint to point mo				x > 4
	b) Explain	the effect of pr	opagation of mo	bile signals over	water.	[5+5]	
, ,****,	, AA7 , . TAT ,	,***. ,***.	ara are	,	eras ves	*****	134 4
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				enna patteriis in it longidistance			[5+5]	1229 1 6 6 6 6 7 6 6 6 8 6 6 8
	8.a) b) 9.a)	Differentiate between FCA and non-FCA in detail.  Explain how the 666 channels are dividing into groups.  OR  Explain the following: i) channel barrowing: ii) overless iii) overless iii) overless iii) and iii) overless iii) and iii) iii) overless iii) iii) overless iii) iii) overless iii) overle				i) overlaid cells.	[5+5]	
f e	10.a) b)	What ar	e the various h		n techniques? E	xplain any two in b i) soft handoff		
	b)	consider	ring signal at t	wo base stations	S.	o cells, based upor		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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				e Figura				
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C			PG	AC	AC		AG	
 .:::			AC	ĦĠ	HC.	PC	AG	**************************************