Q.P. (Q.P. Code: 19EC4011													R	.19	
Reg.	No:]				
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) M.Tech I Year I Semester Regular Examinations Jan 2020 WIRELESS COMMUNICATIONS															
(Embedded Systems)																
Time:	3 hours					11 T	II	•, _	10	(0.)	7 1 \	N	lax. Ma	irks: 60	0	
1	Discu	ss aboi	it the f) Tollowi	Answe	er all F	Tive U U 2G and	nits 5 NIT-I 1 2,5G	x 12 =	= 60 N le cor	/larks)	catio	ns in d	etail		
•	a GS b TD	M. MA.	at the f	0110 111	<u>8</u> () p	00 01 2		O R	moor			cutio		ctuii.		6M 6M
2	a Exp	plain tl	ne term	ns i) Si	mplex	ii) Ha	alf dup	olex i	ii) Ful	l Dup	lex.					6M
	b Giv	ve the e	evoluti	on of 2	2G Cel	lular s	standar UN	rds. NIT-II	ſ							6M
3	a Giv	ve the l	basic c	lassific	cation	of Sm	all Sca	ile fad	ling.							6M
	b Exj	plain th	ne type	s of sr	nall sc	ale fac	ling ba	ased o OR	n mul	tipath	time d	lelay	spread	•		6M
4	a De	scribe	the stat	tistical	mode	ls of ra	adio p	ropaga	ation.							6M
	b Design the simulation methods of the statistical models of radio propagation. UNIT-III															6M
5	Derive the expression for Maximal Ratio Combining Improvement. OR														12M	
6	a Co	mpare	FDMA	A and	ГDMA	Tech	niques	5.	1	1 T 4	C					6M
_	b Exj	plain ti	ne term	IS 1) Ha	andove	er Proc) Co-0 IT- 		el Inte	rterend	ce				6M
7	What is KAKE Keceiver? Explain it with the help of heat diagram in detail. OR													12M		
8	What is Pseudo Random (PN) sequence and explain how it is used in Wireless Communication.														12M	
9	a Exp i)	plain a UMTS	bout th	e follo	owing o M	comm	unicat	ion sta	andard	ls.						6M
	b Define Air interface and give its specifications. OR													6M		
10	a Exp	plain tl	ne conc	cept of	Capac	ity of	flat ar	nd free	quency	y seled	ctive fa	ading	chann	els.		6M
	b Wr	ite sho	rt note	s on T	D-SCI	JMA.										6M

*** END ***