С		Reg. No. :										
		Question Pape	er C	Code	e: 5	6402	1					
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019												
Sixth Semester												
Electronics and Communication Engineering												
15UEC601-WIRELESS COMMNICAION SYSTEMS												
(Regulation 2015)												
Duration: Three hours Maximum: 100 Marks												
	Answer ALL Questions											
		PART A - (5 x)						
1.	Radio capacity may b										(CO1-R
	(a) Increase in radio			Ĩ								
	(b) decreasing radio s	spectrum										
	(c) Increasing the nur	nber of base stations	& re	using	g the	char	nnels	5				
	(d) Decreasing the number of base stations											
2.	Mobile Assisted Handoff (MAHO) provides CO2							CO2-R				
	(a) Faster handoffs		(1	b) fre	eque	nt ha	ndof	fs				
	(c) No monitor of sig	nal strength by MSC	(d) Al	ll the	abo	ve.					
3.	Identify the incorrect	option related to OFI	DM.								C	CO3-R
	(a) Multi carrier meth	nod	(1	b) Er	ncod	ing d	igita	l dat	a			
	(c) Short band digital	t band digital communication (d) 4G mobile co							icatio	on		
4.	Which of the following is NOT a diversity Scheme?C							CO4-R				
	(a) Time	(b) Frequency	(c)	Spa	ce			(d)) Doj	pplei	•	
5.	A system is that operate interdeper wave propagation to	endently and use ung	uideo	d ele	ctroi	nagn					(CO5-R
	(a) wireless	(b) Cellular	(c)	Sate	ellite			(d)) Mo	te G		
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 $PART - B (5 \times 3 = 15 Marks)$

6.		inguish between fixed channel assignment and dynamic channel gnment methods.	CO1-R						
7.	Classify path loss model.								
8.	Reca	all the advantages and disadvantages of Offset-QPSK,.	CO3-R						
9.	Outl	ine Zero Forcing algorithm.	CO4-R						
10.	List	st the limitations in wireless networking.							
	$PART - C (5 \times 16 = 80 Marks)$								
11.	(a)	Analyze the different methods to improve coverage and channel capacity in cellular systems.	CO1-U	(16)					
	Or								
	(b)	Compare and contrast FDMA,CDMA,SDMA,TDMA	CO1-U	(16)					
12.	(a)	Using neat ray diagram, explain the Link Budget design for wireless channel.	CO2-App	(16)					
		Or							
	(b)	Illustrate Parameters of mobile multipath channels.	CO2-App	(16)					
13.	(a)	Describe about Transceiver Implementation. Or	CO3-U	(16)					
	(b)	Using suitable signals and spectrum, explain the concept of OFDM.	CO3-U	(16)					
14.	(a)	Explain the concept of Adaptive equalization.Bring out the salient features.	CO4-U	(16)					
Or									
	(b)	Analyze the various Diversity combining techniques.	CO4-U	(16)					
15.	(a)	Summarize the types of 802.11 wireless standards. Or	CO5-U	(16)					
	(b)	Explain the architecture of wireless network.	CO5-U	(16)					