С		Reg. No. :									
Question Paper Code: 56401											
B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022											
Sixth Semester											
Electronics and Communication Engineering											
15UEC601-WIRELESS COMMNICAION SYSTEMS											
(Regulation 2015)											
Dur	ation: Three hours	(itoguiat)		)	М	laxin	num	: 100	) Mar	ks	
Answer ALL Questions											
PART A - $(5 \times 1 = 5 \text{ Marks})$											
1.										C	01 <b>-</b> R
	(a) Increase in radio	spectrum									
	(b) decreasing radio s	spectrum									
	(c) Increasing the number of base stations & reusing the channels										
	(d) Decreasing the nu	mber of base stations	5								
2.	. Mobile Assisted Handoff (MAHO) provides								C	02-R	
	(a) Faster handoffs		(b) f	reque	ent har	ndof	fs				
	(c) No monitor of sig	nal strength by MSC	(d) A	All the	e abov	/e.					
3.	. Identify the incorrect option related to OFDM.								C	D3-R	
	(a) Multi carrier meth				ling di						
	(c) Short band digital communication (d) 4G mobile communication										
4.	Which of the followin						(1)		1	C	)4-R
5	(a) Time	(b) Frequency	(c) Sp		havata	(ma)		) Do	ppler	C	05 D
5.	A										
	(a) wireless	(b) Cellular	(c) Sa	tellite	e		(d)	) Mo	te G		
PART - B (5 x 3 = 15 Marks)											

6.		inguish between fixed channel assignment and dynamic channel gnment methods.	CO1-R						
7.	Clas	sify path loss model.	CO2-R						
8.	Reca	all the advantages and disadvantages of Offset-QPSK,.	CO3-R						
9.	Outl	ine Zero Forcing algorithm.	CO4-R						
10.	List	the limitations in wireless networking.	CO5-R						
	$PART - C (5 \times 16 = 80 Marks)$								
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)					