]	Enrollm	ent No:		_
		C.U.SHAI	H UNIVERSITY	
		Summer I	Examination-2019	
	Subject 1	Name: Wireless Communication	on	
9	Subject (	Code: 4TE06WCM1	Branch: B.Tech (EC)	
9	Semestei	r: 6 Date: 25/04/2019	Time: 10:30 To 01:30 Marks: 70	
]	Instructio	ons:		
		_	& any other electronic instrument is prohibited.	
	, ,	nstructions written on main answ Draw neat diagrams and figures (	ver book are strictly to be obeyed.	
		Assume suitable data if needed.	if necessary) at right places.	
Q-1	۵)	<b>Define the following terms:</b>		(14)
	a) b)	Page Full duplex channel		
	c)	Soft hand-off		
	<b>d</b> )	Hard hand-off		
	<b>e</b> )	Frequency hopping		
	f)	Simplex systems		
	$\mathbf{g}$	Forward channel		
	h)	Mobile Switching Center		
	i)	Base station		
	<b>j</b> )	Dwell Time		
	<b>k</b> )	Control channel		
	1)	Trunking		
	m)			
	n)	Cluster		
Atten	npt any f	Cour questions from Q-2 to Q-8		
Q-2		Attempt all questions		(14)
	(a)	Explain the concept of Cell Spl		
0.2	<b>(b)</b>	Explain different channel assign	nment strategies in detail.	(1.4)
Q-3	(a)	Attempt all questions What is fading? List and explai	n various types of small scale fading.	(14)
	(a) (b)	<del>-</del>	hitecture and state the functions of the following:	
	(10)	BSC, MSC, VLR, HLR, AUC.	intectare and state the functions of the following.	
Q-4		Attempt all questions		(14)
	(a)	Explain practical handoff consi	derations.	` /
	<b>(b)</b>	<u>-</u> -	gation model and explain any two of them.	



for efficiency of TDMA and The number of channels in TDMA system.

Describe: Time Division Multiple Access (TDMA) in detail. Write the equation

Q-5

(a)

**Attempt all questions** 

**(14)** 

	<b>(b)</b>	Explain Free space propagation model with necessary equations.		
<b>Q-6</b>		Attempt all questions		
	(a)	Explain salient features of CDMA.		
	<b>(b)</b>	Explain the following diversity techniques briefly:		
		1. Space diversity techniques		
		2. Frequency diversity techniques		
Q-7		Attempt all questions	(14)	
	(a)	Describe a Rake receiver in CDMA.		
	<b>(b)</b>	What is diffraction? Briefly explain knife-edge diffraction model with figure.		
<b>Q-8</b>		Attempt all questions	(14)	
	(a)	Explain Linear predictive coders in detail.		
	<b>(b)</b>	Write short note on Vocoders.		

