Enrollment No: _____ Exam Seat No: _____ C.U.SHAH UNIVERSITY Winter Examination-2018

Subject Name: Wireless Communication

	Subject	Code: 4TE0	6WCM1	Branch: B.Tech (EC)		
	Semeste	r: 6	Date: 26/10/2018	Time: 02:30 To 05:3	0 Marks: 70		
	 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 						
Q-1	 a) b) c) d) e) f) g) h) i) j) k) l) m) 	Cluster. RSSI. MAHO. Dwell Time paging syst GOS. Traffic Inte full duplex channel cap Transceiver Roamer.	itching Centre. e. em. nsity. system. pacity. r.			(14)	
Atte	n) mpt any f		tional antenna ns from Q-2 to Q-8				
Q-2 Q-3 Q-4		Attempt al Explain in Explain in PSTN in ce Attempt al Explain in Write short Attempt al Explain in Explain in Explain the	l questions detail with diagram cordl detail with timing diagr ellular telephone systems. l questions detail different leading 20 notes on Bluetooth and p l questions detail with example hand e difference between co	am how call is made from G technologies with its key a personal area networks (PA) off strategies at cell bounda p-channel interference and	Mobile phone to specifications. Ns). ry. adjacent channel	(14) 07 07 (14) 07 07 (14) 07 07	
		merterence		the S / I (signal to interfere	alee 18110).		



Q-5	Attempt all questions				
-	(a)	Explain in detail cell sectoring technique for improving coverage and capacity in cellular systems.	07		
	(b)	State different factors influencing small scale fading effects and explain each of them in detail.	07		
Q-6		Attempt all questions			
-	(a)	Describe briefly the types of small scale fading (based on multipath time delay spread).	07		
	(b)	Enlist different small scale multipath measurement techniques and explain one of them in detail	07		
Q-7		Attempt all questions	(14)		
C	(a)	Explain in detail with diagram ADPCM encoder.	07		
	(b)	Explain in detail with diagram LPC vocoders.	07		
Q-8		Attempt all questions	(14)		
-	(a)	Enlist different spread spectrum multiple access techniques. Explain any one of them in detail.	07		
	(b)	Explain in detail with diagram GSM system architecture.	07		

