Er	rollment No:					
		C.U.SHAH	I UNIVERSITY			
	Summer Examination-2017					
Su	ıbject Name: V	Vireless Communication	1			
Su	bject Code: 47	TE06WCM1	Branch: B.Tech (EC)			
Se	mester: 6	Date: 19/04/2017	Time: 02:30 To 05:30	Marks: 70		
_	(2) Instruction(3) Draw near	ns written on main answe	the any other electronic instrument is er book are strictly to be obeyed. If necessary) at right places.	s prohibited.		
Q-1	Define	Following Terms		(14		
	/	e channel.				
		switching center.				
	c) Subscri					
	d) Full due) GoS.	plex systems.				
	,	Channel.				
	g) Hand-o					
		stem handoff.				
	i) HLR.					
	j) Cell.					
	k) Page.					
	-	x systems.				
	m) Dwell tn) SIM.	ime.				
Attomn	,	stions from Q-2 to Q-8				
_	_			14		
Q-2	-	ot all questions		(14		
_	(a) Explain	n Hand-off strategy in det	eail			

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Q-2 landline subscriber. Q-3 **Attempt all questions (14)** (a) Write short note on evolution for 2Gcellular networks. **(b)** Write a short note on 3G CDMA 2000. **Q-4 Attempt all questions (14)** (a) Compare Mobile Communication and Wireless Communication. Are Both technologies same? Justify your answer.



(b) Explain in detail with diagram Cell Splitting technique.

Q-5		Attempt all questions		
	(a)	Compare TDMA and FDMA.		
	(b)	Consider a transmitter which radiates a sinusoidal carrier frequency of		
		1900Mhz.For a vehicle moving 80 mph, compute the received carrier frequency		
		if the mobile is moving: at an angle (1) $\theta = 0^{0}$ (2) $\theta = 180^{0}$ (3) $\theta = 90^{0}$		
Q-6		Attempt all questions		
	(a)	Explain Sub-band Coding in detail.		
	(b)	Explain in detail LPC vocoders with block diagram.		
Q-7		Attempt all questions	(14	
	(a)	Write a short note on GSM codec.		
	(b)	Explain in detail GSM channel types.		
Q-8		Attempt all questions	(14	
	(a)	Write a short note on Packet Radio.		
	(b)	Explain GSM architecture with diagram in detail.		

