Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		GUSAKAT TECHNOLOGICAL CHIVEK	3111	
		BE - SEMESTER-VII (OLD) - EXAMINATION - SUMM	1ER 2017	
Subject Code: 171004			Date: 06/05/2017	
Su	bject	t Name: Wireless Communication		
v		Total Marks: 7	l Marks: 70	
	tructio		10001111011	
		. Attempt all questions.		
	2.	Make suitable assumptions wherever necessary.		
	3.	. Figures to the right indicate full marks.		
Q.1	(a)	Explain in details the 3G W-CDMA (UMTS) and 3G cdma2000.		07
Q.1	(b)	Explain HLR and VLR functions	a.	07
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Q.2	(a)	List all the propagation models? How they are different to one an	iother?	07
	(b)	Explain power control in CDMA technology.		07
	(b)	OR Explain GPRS architecture		07
	(0)	•		
Q.3	(a)	Explain any one technique of small-scale multipath measurement		07
	(b)	Give names of all logical channels of GSM and write function of	each	07
0.3	()	OR		05
Q.3	(a)	Draw the frame structure of GSM and write the timing parameter	îS	07 07
	(b)	Describe international roaming		U/
Q.4	(a)	Write short note on Zigbee technology		07
	(b)	Describe Architecture of IS-95 CDMA system		07
		OR		
Q.4	(a)	Give comparison of Indoor and outdoor propagation models		07
	(b)	What is hand off? Describe types of hand off and its importance		07
Q.5	(a)	Explain how coverage and capacity of GSM system can be impro	oved?	07
	(b)	Write note on RAKE receiver		07

Q.5 (a) What are diversity techniques to help in improving SNR? Explain in brief

(b) Explain coherence time and coherence bandwidth

OR

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