GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

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Subj	ect o	code: 712701N Date: 23-12-2	013
Subject Name: Wireless Communication Network			
Time: 10.30 am – 01.00 pm Total Marks: 70			
Instructions:			
1. Attempt all questions.			
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)		07
		sectoring techniques. Justify.	~-
	(b)	Which are different GSM channels. Explain with their functions.	07
Q.2	(a)	Explain network operations of NMT mobile networks.	07
	(b)		07
		them.	
		OR	~-
	(b)	Draw and explain cdmaOne protocol architecture.	07
Q.3	(a)	Write a note on 3G service classes and applications.	07
C	(b)		07
		OR	
Q.3	(a)	Describe OFDM with necessary diagrams.	07
	(b)	Explain different methods of charging in mobile networks.	07
Q.4	(a)	Explain the need of satellite based internet access with an example.	07
2.1	(b)		07
	(~)	Also explain the properties of Geostationary satellites.	01
		OR	
Q.4	(a)	Differentiate table driven and on demand routing protocols with an	07
		example.	
	(b)	Define a Piconet and Scatternet. Describe their significance in	07
		Bluetooth communication.	
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Q.5	(a)		07
		proper example.	07
	(b)		07
05	(a)	OR What is the need for wireless network security? List different Schemes	07
Q.5	(a)	of wireless network security.	07
	(b)	•	07
		with proper diagram.	07
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