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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION - WINTER 2018

Subject Code: 170702N	Date: 06/12/2018
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Subject Name: Wireless Communication and Mobile Programming

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Draw and explain the three tier architecture of mobile computing.	07
	(b)	What is Mobile IP? Explain Discovery, Registration and Tunneling with Mobile IP	07
Q.2	(a)	Explain call routing in GSM with block diagram.	07
	(b)	What is a mobile IP? Explain discovery, registration and tunneling with mobile IP.	07
		OR	
	(b)	Describe protocol stack of Bluetooth	07
Q.3	(a)	Explain GSM architecture	07
	(b)	Write short note on: 1G, 2G, 2.5G and 3G mobile communications.	07
		OR	
Q.3	(a)	What is Frequency Reuse? Explain Frequency Allocation in GSM.	07
	(b)	Explain the value added services through SMS.	07
Q.4	(a)	Draw GPRS System Architecture. Discuss GPRS network enhancement over GSM.	07
	(b)	What is RFID? Differentiate active and passive RFID.	07
		OR	
Q.4	(a)	Write a short note on WAP.	07
	(b)	What is CDMA technology? Explain Direct Sequence Spread Spectrum	07
0.5	(-)	Evaloin WiEi and WiMay tashnalagy in Atail	07
Q.5	(a)	Explain WiFi and WiMax technology in detail.	07
	(b)	Define Mobile Ad hoc Networks. Discuss its characteristics and limitations.	07
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Q.5	(a)	What is Mobile VoIP? Explain	07
	(b)	Explain Indirect TCP and Snooping TCP in detail.	07
