Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019

Subject Code: 170702N Da	te:21/05/2019
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Subi	iect I	Name:	Wireless	Communication	&	Mobile	Progr	ramming

30 PM TO 05:00 PM Total N	Marks: 7	<b>70</b>
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## **Instructions:**

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

Q.1	(a) (b)	Explain Three Tier Architecture of Mobile Computing. Briefly describe the following networks with example and application 1. Wired network 2. Wireless network 3. Ad hoc network	07 07
Q.2	(a) (b)	Draw and explain the Bluetooth protocol stack.  Draw GPRS System Architecture. Discuss GPRS network enhancement over GSM.	07 07
		OR	
	<b>(b)</b>	What is Mobile IP? Explain tunneling in the context of Mobile IP	07
Q.3	(a)	Explain wireless TCP and differentiate Indirect TCP, Snooping TCP and Mobile TCP.	07
	<b>(b)</b>	Explain the handover procedure in GSM system.  OR	07
Q.3	(a)	What is PDP Address? Explain PDP Context Activation in GPRS.	07
	<b>(b)</b>	Explain SMMT and SMMO in SMS.	07
Q.4	(a)	Write note on RFID scarrity and Mobile Agent security.	07
	<b>(b)</b>	Discuss GPRS specific applications along with limitations of GPRS.	07
	( )	OR	
Q.4	(a)	Discuss the WAP gateway for coding and encoding.	07
	<b>(b)</b>	What is CDMA technology? Explain Direct Sequence Spread Spectrum.	07
Q.5	(a)	Explain direct sequence spread spectrum	07
Q.C	(b)	Explain Indirect TCP and Snooping TCP in detail.	07
	(~)	OR	07
Q.5	(a)	Explain H.323 framework for voice over IP.	07
•	<b>(b)</b>	Explain WiFi and WiMax technology in detail.	07