Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - II • EXAMINATION - WINTER • 2014

Subject code:1720101 Date: 02-12-2014

Subject Name: Wireless Networking & Mobile Computing

Time: 02:30 pm - 05:00 pm Total Marks: 70

Instructions:

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

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Q.1	(a)	Explain the handoff procedure in GSM system. Also explain it with relative signal strength with threshold; that is, a mobile switches from one cell to anotherif the signal at the current BS is sufficiently weak (less than a	07
	(b)	predefined threshold) Explain DHCP. How can DHCP be used for mobility and support of Mobile IP?	07
Q.2	(a)	Draw Bluetooth architecture. What are the advantages and problems of forwarding mechanisms in Bluetooth networks regarding security and power	07
	(b)	saving ? Briefly explain about indirect and snooping TCP OR	07
	(b)	Explain the concept of IEEE 802.11 medium access control layer	07
Q.3	(a)	functions. What are the advantages of specifying not only the radio	07
	(b)	interface but also the internal interfaces of the GSM system?	07
Q.3	(a)	Explain Different Security algorithms used in GSM and different components used to implement them.	07
	(b)	What is the use of spread spectrum? Explain working of FHSS.	07
Q.4	(a)	What is the importance of WML and WML scripts in mobile computing? Write WML script for basic calculator functions like add, subtract, multiply and division of two integer numbers.	07
	(b)	Explain architecture of WAP 2.0 and discuss its security issues in detail OR	07
Q.4	(a)	WML script for displaying result as first class, distinction, pass class by	07
	(b)		07
Q.5	(a)	quality of service?	07
	(b)	Explain any two mobile OS with security issues in mobile OS. OR	07
Q.5	(a) (b)	111 OG 11 Cl. Landling management	07 07