Seat No.:	Enrolment No.

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

Subject Name: Ubiquitous Computing Time: 10.30 am - 01.00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Q.1 (a) Define and classify handover. Explain each in detail. (b) Draw the Reference Architecture of GSM. Explain in brief the every block Q.2 (a) Write short note on GSM radio interface. (b) Write short note on DECT protocol architecture. OR (b) MAC management of IEEE 802.11. Q.3 (a) Explain DHCP in detail.		
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Q.3 (a) Explain DHCP in detail.	07	
	07	
(b) List necessary configuration parameters to adapt TCP in wireless er Explain each in detail.	vironment. 07	
OR		
Q.3 (a) Write short note on: Bluetooth Security	07	
(b) Discuss the advantages of CDMA technology. Why orthogonal codes as CDMA mobile?	re used in 07	
Q.4 (a) What is Mobile-IP? Explain tunneling and encapsulation in the conte Mobile IP.	ext of 07	
(b) Compare I-TCP with S-TCP.	07	
OR		
Q.4 (a) Explain DECT system and its protocol architecture in detail.	07	
(b) Write a note on mobile operating system. Explain any one in detail.	07	
Q.5 (a) State the requirements of WAP and explain different layers of WAP.	07	
(b) Explain problem of hidden and exposed terminal. Explain scheme to	solve it. 07	
OR OF (a) Write note on wireless network simulators	07	
Q.5 (a) Write note on wireless network simulators.(b) Describe mobile oriented call (MOC) and mobile terminated call (M' in GSM.	07 ΓC) setup 07	
