Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER 2012

Subj	ect c	ode: 712304N Date: 16-01-2013	3
Subj	ect N	ame: Ubiquitous Computing	
Time	e: 02.	30 pm – 05.00 pm Total Marks: 70)
Insti	ructi	ons:	
	1.	Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.]	Figures to the right indicate full marks.	
Q.1	(a)	Explain the evolution of cellular communication from 1G to 3G.	07
	(b)	State and explain the advantages and disadvantages of cellular system.	07
Q.2	(a)	Draw and explain UMTS system architecture.	07
	(b)		07
		OR	
	(b)	Classify and explain the channel structure of GSM.	07
Q.3	(a)	Write short note on: Infrastructure and ad-hoc network.	07
•	(b)		07
		OR	
Q.3	(a)	Draw and explain the system architecture of infrastructure based IEEE 802.11.	07
	(b)	Explain mobile file system in detail.	07
Q.4	(a)	Explain agent discovery in mobile IP.	07
	(b)		07
		OR	
Q.4	(a)		07
Q.4	(b)	Explain wireless transport layer security.	07
Q.5	(a)	Explain routing in mobile ad-hoc network.	07
	(b)	Draw wireless telephony application logical architecture. Explain each block in detail.	07
		OR	
Q.5	(a)		07
	<i>a</i> >	TCP for mobility.	^=
	(b)	Explain WAP 2.0 architecture in detail.	07
