

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –1st SEMESTER–EXAMINATION – JULY- 2012

Subject code: 712304N

Date: 11/07/2012

Subject Name: Ubiquitous Computing

Time: 2:30 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.

- Q.1** (a) Explain following :
1) Transmission Range **02**
2) Reflection **02**
3) Multipath Propagation **03**
(b) Draw and explain GSM system architecture. **07**
- Q.2** (a) Define and classify handover. Explain each in detail. **07**
(b) Write short note on GSM radio interface. **07**
OR
(b) Write short note on DECT protocol architecture. **07**
- Q.3** Write short note on :
(a) MAC management of IEEE 802.11 **07**
(b) Agent discovery **07**
OR
- Q.3** (a) Write short note on : Bluetooth Security **07**
(b) Explain any two mechanism of traditional TCP. **07**
- Q.4** (a) Explain routing in mobile ad-hoc network. Compare wired network with mobile ad-hoc network. **07**
(b) Write short note on Snooping TCP. **07**
OR
- Q.4** (a) Explain DHCP in detail. **07**
(b) List necessary configuration parameters to adapt TCP in wireless environment. Explain each in detail. **07**
- Q.5** (a) Explain wireless transport layer security. **07**
(b) Write short note on architecture of WAP 2.0. **07**
OR
- Q.5** Write short note on :
(a) Wireless Markup Language **07**
(b) Compare normal operating system with mobile operating system. **07**
