

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 170702**Date: 31/12/2012****Subject Name: Wireless Communication & Mobile Programming****Time: 10.30 am – 01.00 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 Physical and Logical architecture of wireless Communication. **07**
 (b) Explain wireless TCP and differentiate Indirect TCP, Snooping TCP and Mobile TCP. **07**
- Q.2** (a) Explain Abstract Mobility Management Model. **07**
 (b) List out GSM Specification and explain functional architecture of GSM. **07**
- OR**
- (b) Explain Different types of GSM Channels. **07**
- Q.3** (a) Explain mobile originated call and mobile terminated call procedure. **07**
 (b) Explain design consideration for mobile computing and benefits of mobile computing **07**
- OR**
- Q.3** (a) Explain Push and Pull In Short Messaging Services. **07**
 (b) Explain architecture of IEEE 802.16 standard. **07**
- Q.4** (a) Explain the GPRS functional architecture and application. **07**
 (b) Differentiate CDMA technology and GSM technology. **07**
- OR**
- Q.4** (a) Explain different types of Propagation Mode. **07**
 (b) Explain Difference Between H.323 and SIP **07**
- Q.5** (a) Explain MANET and issues with moving node in network. **07**
 (b) Explain 3GPP security architecture. **07**
- OR**
- Q.5** (a) Explain Wireless LAN security issues and also explain hidden & exposed terminal problem in wireless LAN. **07**
 (b) I) Explain different types of security attack. **07**
 II) Difference between SOC and AOC client.
