

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – SUMMER 2013****Subject Code: 170702N****Date: 24-05-2013****Subject Name: Wireless Communication & Mobile Programming****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.

- Q.1 (a) Describe the various aspects of mobility with respect to Mobile Computing and list the variants of Mobile Computing. 7
- (b) What is ICAP? Explain the typical data flow scenario in ICAP environment. 7

- Q.2 (a) What SOC and AOC Clients? Compare them. 7
- (b) What is piconet and scatternet? Explain. How many maximum numbers of devices can communicate within one piconet? 7

OR

- (b) Explain WiMAX three layer architecture. 7

- Q.3 (a) Explain the following TCP variants 8
- Indirect TCP
 - Snooping TCP
- (b) Why conventional network IP is not suitable for mobile environment? How Mobile IP works? 6

OR

- Q.3 (a) Explain the Tunneling Operation in Mobile IP. 8
- (b) Explain the IPv6. 6

- Q.4 (a) Explain the importance of following identifiers with that GSM is deals with: 8
- IMEI
 - IMSI
 - MSISDN
- (b) Discuss the challenges for SMS as Mobile computing bearer 6

OR

- Q.4 (a) Explain the handover procedure in GSM system 8
- (b) Explain the WAP Layered architecture and protocol stack. 6

- Q.5 (a) Explain the H.323 Framework for Voice Over IP (VoIP). 8
- (b) Compare the WiFi and 3G Technologies 6

OR

- Q.5 (a) Do the Comparison between H.323 and SIP. 8
- (b) Explain the Direct Sequence Spread Spectrum Techniques. 6
