

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII EXAMINATION – SUMMER 2016****Subject Code:170702N****Date:07/05/2016****Subject Name:Wireless Communication & Mobile Programming (w.e.f June 2012)****Time:02:30 PM to 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 Three Tier Architecture of Mobile Computing. **07**  
(b) What is Mobile IP? Explain Discovery, Registration and Tunneling with Mobile IP. **07**

- Q.2** (a) Explain Bluetooth Protocol Stack in detail. **07**  
(b) What is Handover? Explain GSM Architecture with suitable diagram. **07**

**OR**

- (b) What is Frequency Reuse? Explain Frequency Allocation in GSM. **07**

- Q.3** (a) Explain Routing between PLMNs of GPRS. **07**  
(b) Explain SMMT and SMMO in SMS. **07**

**OR**

- Q.3** (a) What is PDP Address? Explain PDP Context Activation in GPRS. **07**  
(b) Explain MMS Architecture and transaction flow in MMS. **07**

- Q.4** (a) List and explain strength of SMS. **07**  
(b) Explain Wireless LAN security issues and also explain hidden & exposed terminal problem in wireless LAN. **07**

**OR**

- Q.4** (a) What is WAE? Draw its model with client, gateway and server. **07**  
(b) What is CDMA technology? Explain Direct Sequence Spread Spectrum. **07**

- Q.5** (a) Compare SIP and H.323. **07**  
(b) Explain WiFi and WiMax technology in detail. **07**

**OR**

- Q.5** (a) Explain Indirect TCP and Snooping TCP in detail. **07**  
(b) Compare GSM and CDMA. **07**

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