

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME Semester –II Examination Dec. - 2011

Subject code: 1720101

Date: 09/12/2011

Subject Name: Wireless Networking & Mobile Computing

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 Wireless Application Protocol version two (WAP 2.0) Architecture. **07**
(b) In how many ways Spreading the spectrum can be achieved? Explain each of them. **07**

- Q.2** (a) What are the differences between Digital Enhanced Cordless Telecommunications and GSM? Also explain DECT system architecture reference model. **07**
(b) Explain in detail advantages, disadvantages and design goals for WLANs. **07**

OR

- (b) Explain Infrastructure-based and Adhoc Wireless Networks. **07**

- Q.3** (a) Explain the components of a Bluetooth packet at baseband layer. **07**
(b) Describe basic DHCP configuration and client initialization via DHCP. **07**

OR

- Q.3** (a) Define Encapsulation and Decapsulation. Describe Generic routing encapsulation. **07**
(b) Explain Flat ad-hoc routing and Hierarchical ad-hoc routing. **07**

- Q.4** (a) Explain Reverse Tunneling. **07**
(b) Describe Functional architecture of a GSM System. **07**

OR

- Q.4** (a) Explain Snooping TCP. **07**
(b) Explain Phase shift keying, Advanced frequency shift keying, Advanced phase shift keying and Multi-carrier modulation. **07**

- Q.5** (a) Explain Mobile TCP. **07**
(b) List and explain in detail the characteristics which have to be considered while deploying applications over 2.5G/3G wireless links. **07**

OR

- Q.5** (a) Explain Dynamic Source Routing. **07**
(b) Which are the basic transmission technologies used for WLANs? Explain them in detail. **07**
