

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – WINTER • 2013****Subject code: 1720101****Date: 24-12-2013****Subject Name: Wirelesss Networking and Mobile Computing****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 Bluetooth protocol stack with each layer in brief. **07**
 (b) What is Multiplexing? Explain Frequency Division Multiplexing and Code Division Multiplexing. **07**
- Q.2** (a) Explain Advanced Phase Shift Keying. **07**
 (b) Explain Snooping TCP in detail. **07**
- OR**
- (b) Explain Frequency Hoping Spread Spectrum. **07**
- Q.3** (a) Explain coding method in CDMA. **07**
 (b) Explain Architecture of GSM System. **07**
- OR**
- Q.3** (a) Explain L2CAP protocol in Bluetooth. **07**
 (b) Write a WML Script to implement calculator functionality **07**
- Q.4** (a) Write NS2 TCL script for network consists of 4 nodes n0, n1, n2, n3. **07**
 The duplex links between n0 and n2, and n1 and n2 have 2 Mbps of bandwidth and 10 ms of delay. The duplex link between n2 and n3 has 1.7 Mbps of bandwidth and 20 ms of delay.
 (b) Explain DSR (Dynamic Source Routing) in Mobile Node **07**
- OR**
- Q.4** (a) Explain GPRS Architecture reference model **07**
 (b) Discuss DECT Protocol Layers. **07**
- Q.5** (a) Explain DFWMAC-DCF with RTS/CTS extension **07**
 (b) Explain WAP 2.0 Architecture with figure. **07**
- OR**
- Q.5** (a) Explain DFWMAC-PCF with Polling. **07**
 (b) Explain Synchronization in MAC Management of IEEE 802.11 **07**
