IV B.Tech I Semester Examination, November-2015

**MOBILE COMPUTING**

Time: **3** hours (CSE) Max. Marks: **60**

## Instructions: 1. Answer ONE question from each unit

## 2. All Questions carry equal marks

**3. Assume missing data, if any**

**UNIT – I**

1. a) What is signal? Explain the ways of representing signals? [6M] [6M]

b) Explain about hidden and exposed terminals. [6M] [6M]

### (OR)

2. a) What is meant by multiplexing? Explain different types of multiplexing techniques? [7M] [6M]

b) Explain about Radio transmission frequencies. [5M]

**UNIT – II**

1. a) Explain the functional architecture of GSM system with neat diagram. [7M]

b) Explain about localization and calling. [5M]

**(OR)**

4. a) Explain the handover mechanism with neat sketch. [6M]

b) Briefly explain protocol architecture for signaling. [6M]

**UNIT – III**

5. a) Explain the system architecture of IEEE 802.11. [6M]

b) Brief about Pico net. [6M]

### (OR)

6. a) Explain two different WLAN transmission technologies. [6M]

b) Brief about Scatter net. [6M]

**UNIT – IV**

7. a) Explain about IP packet delivery. [6M]

b) Explain about dynamic source routing. [6M]

### (OR)

8. a) Explain about Tunneling and encapsulation. [6M]

b) Explain about dynamic host configuration protocol. [6M]

**UNIT – V**

9. a) Briefly explain the mechanism of classical TCP for mobility. [8M]

b) Explain wireless datagram protocol. [4M]

### (OR)

10. a) Explain the architecture of WAP with neat diagram. [8M]

b) Explain congestion control mechanism. [4M]