IV B.Tech I Semester Examinations - November 2016

**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) Explain Space division & Code division Multiplexing. [6M]

b) Describe advantages & disadvantages of cellular systems. [6M]

### (OR)

2. a) Explain about various types of Antennas. [6M]

b) Explain about Radio transmission frequencies. [6M]

**UNIT – II**

3. a) Explain the protocol architecture of GSM. [6M]

b) Describes the Security services offered by GSM. [6M]

**(OR)**

4. a) Explain about generations of Mobile communications. [6M]

b) Describe about the Radio sub system (RSS) of GSM. [6M]

**UNIT – III**

5. a) Explain about the formation of Piconet. [6M]

b) Describe physical layer frame format using DSSS. [6M]

**(OR)**

6. a) Give advantages and disadvantages of two different wireless transmission      technologies.[6M]

b) Explain protocol architecture of IEEE 802.11. [6M]

**UNIT – IV**

7. a) Explain about the Dynamic Source Routing. [6M]

b) Describes the Agent discovery & registration. [6M]

**(OR)**

8. a) Explain differences between wired networks and ad hoc wireless networks. [6M]

b) Describe about entities and terminologies in Mobile IP. [6M]

**UNIT – V**

9. a) Explain about the Congestion Control Mechanism? [6M]

b) Discuss about the snooping TCP. [6M]

**(OR)**

10. a) Explain about fast recovery and time out freezing. [6M]

b) Describe about selective retransmission and transaction oriented TCP. [6M]