

IV B.Tech. II Semester Examination, May 2014

## **MOBILE COMPUTING**

(CSE)

Time: 3 hours

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. Explain how different Business services can be provided using wireless and mobile networks. [12M]

(OR)

2. Discuss guard bands in FDMA, Explain FDMA in detail. [12M]

### **UNIT – II**

3. Explain system architecture of GSM. [12M]

(OR)

4. Explain UMTS system architecture and radio interface in detail. [12M]

### **UNIT – III**

5. Discuss different versions of IEEE 802.11 in detail. [12M]

(OR)

6. Compare and contrast infra red and radio transmissions, Discuss Bluetooth architecture and layers in detail. [12M]

### **UNIT – IV**

7. What are the differences between multi-hop ad-hoc networks and other networks? Discuss advantages of different ad-hoc networks. [12M]

(OR)

8. Explain in detail about Mobile IP. [12M]

### **UNIT – V**

9. What are the classical solutions that make TCP work in mobile environment? Explain why they are not complete solutions. [12M]

(OR)

10. What is the role of foreign agent and gateways in indirect TCP explain with suitable examples. [12M]