46217

BT-6/M-24

MOBILE COMPUTING
Paper–PE-IT-S312A

Time : Three Hours] [Maximum Marks : 75

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT–I

1. (a) Discuss in detail, "How the channels are allocated in Cellular systems"? (7)

   (b) What is mobile computing? Describe three tier architecture of mobile computing. (8)

2. (a) What are the various subsystems used in GSM system? (8)

   (b) Give brief overview of various generations of cellular network technology. (7)

UNIT–II

3. (a) Define IEEE. Write description of all IEEE 802.11 standards. (8)

   (b) What are the components of WAP architecture? (7)

4. (a) Discuss the working of Blue Tooth. (7)

    (b) Explain why the MAC protocol is more important in wireless LANs then in wired LANs? (8)

UNIT–III

5. (a) Discuss adaptive clustering for mobile wireless networks. (7)

    (b) What do you mean by data replication in mobile computing? Explain the issues in brief. (8)

6. (a) Explain transaction processing in mobile computing environment. (8)

    (b) Classify different types of cloud deployment model. (7)

UNIT–IV

7. (a) Explain DSDV architecture in detail. (7)

    (b) Explain Temporary ordered routing algorithm (TORA) in detail. (8)

8. What are the characteristics of Mobile Ad hoc Networks? Give an overview of MAC issues and QoS in ad hoc networks. (15)

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