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06CS/IS831

Eighth Semester B.E. Degree Examination, June/July 2011

Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions selecting at least TWO questions from each part.

PART – A

- 1 a. Describe the various features of smart phones and multimedia phones. (10 Marks)
b. Explain the various subsystems and units in the GSM architecture. How do these subsystems and units differ from those in GPRS? (10 Marks)
- 2 a. List out the techniques in OFDM. (04 Marks)
b. Describe the important features of CDMA systems. (06 Marks)
c. The clock frequency of LFSR is 1.2288 MHz, the chipping rate is 1.2288 M chip/s. What is the rate of sequences generated at the o/p when spread factor is 64? (10 Marks)
- 3 a. Differentiate between datagram and packet. What are the uses of datagram in mobile IP protocols? (06 Marks)
b. Explain the header fields in ICMP messages. What are the uses of ICMP messages in the internet? (10 Marks)
c. Define : i) Reuse tunneling ii) Tunneling. (04 Marks)
- 4 a. What are the functions of home and foreign agents in the mobile IP protocol? (08 Marks)
b. Describe the features of TCP. (04 Marks)
c. Explain the data caching architecture. (08 Marks)

PART – B

- 5 a. Explain the push based data delivery mechanism. List out the advantages of push-based data dissemination. (10 Marks)
b. Explain the online scheduling algorithm for scheduling the broadcast scheduling. (10 Marks)
- 6 a. List out and explain popular synchronization protocols for synchronizing mobile applications at the mobile devices. (10 Marks)
b. List out the characteristics and advantages of mobile agent. (10 Marks)
- 7 a. Define MANET. How does MANET differ fixed infrastructure network? (04 Marks)
b. Explain Sun JAVA system, web server 6. (10 Marks)
c. Explain DSR, AODV protocols. (06 Marks)
- 8 a. Explain J2EE architecture features. (10 Marks)
b. What are the features of palmos? (06 Marks)
c. Explain memory manager features in windows CE. (04 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

