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13MCA443

Fourth Semester MCA Degree Examination, June/July 2016
Mobile Computing and Wireless Communications

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. What is mobile computing? Explain the three-tier architecture for mobile computing with neat diagram. (10 Marks)
b. Explain the design consideration for mobile computing. (05 Marks)
c. What is security manager? Explain the component of security manager. (05 Marks)
- 2 a. Explain the concept of global system for mobile communication (GSM). What are the GSM entities? (10 Marks)
b. Explain the strengths of SMS. What is SMMT and SMMO, explain with an example. (10 Marks)
- 3 a. Explain the GPRS system architecture with neat diagram. (10 Marks)
b. What are the data services in GPRS? Explain with an example of a GPRS internet connection. (10 Marks)
- 4 a. What is direct spread spectrum technology? How does it works in CDMA technology. (10 Marks)
b. Explain the major difference between GSM and IS-95. (10 Marks)
- 5 a. Explain the concept of mobile phone and their features. (10 Marks)
b. Explain the concept of cellular IP, mobile IP with IPV6. (10 Marks)
- 6 a. What is smart client architecture for user interface and data storage? Explain it. (10 Marks)
b. What is mobile operating system? Explain the process of deployment and development phase. (10 Marks)
- 7 a. Explain the concept of wireless application protocol(WAP) with appropriate examples. (10 Marks)
b. What is thin client architecture? Explain with an example. (10 Marks)
- 8 Write the short notes on followings :
a. CLDC
b. MIDP
c. GUI components
d. Multimedia API's. (20 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.

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