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13MCA443

Fourth Semester MCA Degree Examination, June/July 2018
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-tire Architecture for mobile computing with neat diagram. (10 Marks)
b. What is Internet Content Adaptation Protocol (ICAP)? Explain typical Data Flow in ICAP Environments. (10 Marks)
- 2 a. Explain the GSM components and GSM Entities in mobile computing with appropriate examples. (10 Marks)
b. What are the strengths of Short Message Service (SMS). Explain the value Added services through SMS in detail. (10 Marks)
- 3 a. Explain the GPRS system Architecture with neat diagram. (10 Marks)
b. What are the GPRS specific Applications? Explain in detail. (10 Marks)
- 4 a. What is spread – spectrum Technology? Explain the different spreading techniques in details. (10 Marks)
b. Explain the major difference between GSM and IS – 95. (10 Marks)
- 5 a. What is mobile Handset overview? Explain Mobile phones and their features in details. (10 Marks)
b. Explain the concepts of cellular IP, mobile IP with IPy 6. (10 Marks)
- 6 a. Explain the concepts of Data synchronization and Messaging for mobile computing environment. (10 Marks)
b. What is mobile operating system? Explain Implementation and testing phase of in mobile computing environment. (10 Marks)
- 7 a. What is wireless Application protocol? Explain the components of WAP in detail. (10 Marks)
b. What are major difference between XHTML and voice XML? Explain with an examples. (10 Marks)
- 8 Write the short notes on following :
 - a. MIDP
 - b. CLDC
 - c. GUI in MIDP
 - d. Multimedia APIs.(20 Marks)

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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.