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13MCA443

Fourth Semester MCA Degree Examination, Dec.2018/Jan.2019
Mobile Computing and Wireless Communication

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the three-tier architecture for mobile computing with a neat diagram. (10 Marks)
b. Explain the context aware system in mobile computing. (05 Marks)
c. Describe ICAP with a neat diagram. (05 Marks)
- 2 a. Explain the GSM architecture with a neat diagram. (10 Marks)
b. Explain GSM addresses and identifiers. (10 Marks)
- 3 a. Explain the architecture of SMS with a neat diagram. (10 Marks)
b. Explain the GPRS specific applications and limitations of GPRS. (10 Marks)
- 4 a. What is spread spectrum? Explain the direct sequence spread spectrum technology in detail. (10 Marks)
b. Explain IS-95 forward and reverse link channels structures with a neat diagram. (10 Marks)
- 5 a. Explain the design constraints for handheld devices. (10 Marks)
b. Explain the mobile IP architecture with a neat diagram. Discuss tunneling operations in mobile IP. (10 Marks)
- 6 a. Describe the smart client architecture with a neat diagram. (10 Marks)
b. Explain the various mobile operating systems. (10 Marks)
- 7 a. Explain Midlet model and Midlet life cycle with a neat diagram. (10 Marks)
b. Explain J2ME architecture with a neat diagram. (10 Marks)
- 8 Write short notes on:
a. WML
b. Voice XML
c. HDML
d. WiMax. (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.