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10MCA554

Fifth Semester MCA Degree Examination, June/July 2015
Wireless Networks & Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the three-tier architecture of mobile computing with a neat diagram. (12 Marks)
b. Write a note on context aware system. (08 Marks)
- 2 a. Explain mobility management in global system for mobile communication. (10 Marks)
b. How frequency allocation is done in GSM? (10 Marks)
- 3 a. Explain transmission plane protocol architecture of GPRS with a neat diagram. (12 Marks)
b. What are the GPRS-specific application? (08 Marks)
- 4 a. What is the expansion of RFID? Explain RFID in details and mention the area of application for RFID. (12 Marks)
b. Explain IS-95 architecture with a neat diagram. (08 Marks)
- 5 a. Explain the components of Mobilex phones and PDA. (12 Marks)
b. What are the design constraints in Applications for handled devices? (08 Marks)
- 6 a. Explain Palm OS Architecture in details. (12 Marks)
b. Explain Symbian OS architecture. (08 Marks)
- 7 a. What are the security consideration in MIDP? (10 Marks)
b. What are the strengths of SMS? (10 Marks)
- 8 Explain the following:
a. PLMN interface.
b. Limitation of GPRS.
c. CDMA data protocol stack.
d. Migration from IPV4 to IPV6. (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.