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14SCS424

Fourth Semester M.Tech. Degree Examination, June /July 2016
Wireless Networks and Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Discuss the content architecture with respect to mobile computing with a neat sketch. (10 Marks)
b. List and explain the main elements of IS-95 along with the reference architecture model. (10 Marks)
- 2 a. What is meant by handover? Discuss various types of handover and handover procedure in GSM. (10 Marks)
b. Define SMS. List and explain unique characteristics of SMS. (06 Marks)
c. Write a short note on WiMAX. (04 Marks)
- 3 a. List the components of PDA. Explain each of them in detail. (10 Marks)
b. Briefly explain discovery, registration and tunneling operations in mobile IP. (10 Marks)
- 4 a. With a neat diagram, explain server synchronization smart client architecture. (10 Marks)
b. What are device emulators? Write various features of device emulators. Also discuss any two device emulators in brief. (10 Marks)
- 5 a. Explain palm OS architecture with a neat sketch. (10 Marks)
b. Write the smart client development cycle. Explain needs analysis and design phase in detail. (10 Marks)
- 6 a. Discuss various steps involved in processing a wireless request in detail. (10 Marks)
b. Explain WAP programming model using a wireless gateway. (06 Marks)
c. Explain various benefits of WAP. (04 Marks)
- 7 a. What is the necessity of XHTML in wireless internet applications? How XHTML differs from HTML? (06 Marks)
b. What is meant by CDC? Discuss three CDC profiles. (07 Marks)
c. Discuss several security features built into MIDP2.0 to protect the users from rogue applications. (07 Marks)
- 8 a. Explain MID let life cycle with states and context methods. (10 Marks)
b. Explain the following low-level GUI components : (10 Marks)
 - i) Canvas
 - ii) Game API
 - iii) Sprite
 - iv) Tilled layer.

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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.