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14SCS424

Fourth Semester M.Tech. Degree Examination, June/July 2017
Wireless Networks and Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain three tier architecture for mobile computing, with a neat diagram. (10 Marks)
b. Discuss the considerations to be made in the design of mobile computing. (10 Marks)
- 2 a. Describe the call routing procedure in G.S.M. (10 Marks)
b. Explain IS-95 architecture with a neat diagram. (10 Marks)
- 3 a. Enumerate the capabilities of smart phones, pocket PC's and smart communicators. Also discuss the structure of a mobile device. (10 Marks)
b. Discuss the constraints in the design of applications for hand-held devices. (10 Marks)
- 4 a. Discuss the architecture for smart clients. (10 Marks)
b. Explain any two mobile operating systems – Symbian OS, - Linux OS, - Windows CE. (10 Marks)
- 5 a. Discuss the different phases involved in the design of a mobile application. (10 Marks)
b. Enumerate two key-points to be considered in the design of a wireless connectivity of a mobile application. (10 Marks)
- 6 a. Explain the wireless architecture of a thin client for a internet application. (10 Marks)
b. Discuss the programming model for WAP. (10 Marks)
- 7 a. Discuss the features of CDC and CLDC. (10 Marks)
b. Explain in detail the life cycle of a MID let. (10 Marks)
- 8 Write short notes on any Four:
a. CDMA vs GSM
b. Spread Spectrum Technology
c. Store and Forward Messaging
d. WAP Benefits
e. Mobile IP Architecture. (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.