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M.Tech. Degree Examination, June/July 2011
Wireless and ATM Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1.
 - a. Compare the characteristics of cellular and cordless low tier PCS technologies. (04 Marks)
 - b. What strategies have been proposed to detect the need for hand off? (06 Marks)
 - c. Explain with a flowchart, how queuing priority scheme assists a hand off call. (10 Marks)
2.
 - a. What is soft hand off? Explain the procedures for adding a new BS in handoff management. (10 Marks)
 - b. What are the aspects considered for interaction between a PCN and PSTN? Explain SS7 signaling protocol layers with the corresponding OSI layers. (10 Marks)
3.
 - a. Describe a sharing (S) scheme for MS registration. (10 Marks)
 - b. Write notes on the following : (10 Marks)
 - i) CDPD air interface ; ii) Radio resource allocation in CDPD. (10 Marks)
4.
 - a. Describe in detail about GSM frame with GSM burst structure. (10 Marks)
 - b. Explain GSM architecture in terms of GSM network signaling. (10 Marks)
5.
 - a. Explain an algorithm to identify the exact VLRs to be contacted by the HLR after an HLR failure. (10 Marks)
 - b. Explain the network elements of GSM on the net and discuss H.323 architecture. (10 Marks)
6.
 - a. Describe GPRS attach and detach procedures of PDP contexts. (10 Marks)
 - b. Explain the protocol stack for implementing WAP over GPRS. (10 Marks)
7.
 - a. Write notes on following wireless OSs : (06 Marks)
 - i) WinCE OS ; ii) EPOC OS ; iii) Palm OS.
 - b. Explain POCSAG coding format in paging systems. (10 Marks)
 - c. What are the issues to be considered in wireless level loop development? (04 Marks)
8.
 - a. Discuss briefly blue tooth core protocols. (08 Marks)
 - b. Discuss the difference between fixed prepaid and postpaid services. (06 Marks)
 - c. Discuss the different kinds of mobile number portability. (06 Marks)

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