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10MCA554

**Fifth Semester MCA Degree Examination, December 2012**  
**Wireless Networks and Mobile Computing**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Explain the different tiers in three-tier architecture. (12 Marks)  
b. Explain context aware systems. (08 Marks)
- 2 a. Explain GSM entities to form GSM network. (12 Marks)  
b. To manage all complex functions, GSM deals with many addresses and identifiers. Explain them. (08 Marks)
- 3 a. Explain applications for GPRS and limitations of GPRS also. (12 Marks)  
b. Write short note on Tariffing and Billing. (08 Marks)
- 4 a. Explain IS-95 architecture main elements and draw the neat diagram of IS-95 architecture. (12 Marks)  
b. Write short note on CDMA and GSM. (08 Marks)
- 5 a. Explain the components of mobile phone and draw a neat diagram of components of mobile phone. Explain features of mobile phone. (12 Marks)  
b. Draw a neat diagram of components of PDA and explain them. (08 Marks)
- 6 a. Write short note on:  
i) Palm OS  
ii) Symbian OS.  
iii) Win CE. (12 Marks)  
b. Explain the applications for symbian OS. (08 Marks)
- 7 a. Explain the life cycle of MIDLet. (12 Marks)  
b. Write security considerations in MIDP. (08 Marks)
- 8 Explain the following :  
a. PLMN interfaces.  
b. SMS.  
c. Third generation networks.  
d. HTTP connections. (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.