Code No: D6102, D3804, D7004, D6502 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech II - Semester Examinations, March 2011 WIRELESS COMMUNICATIONS AND NETWORKS (COMMON TO COMMUNICATION SYSTEMS, DIGITAL ELECTRONICS & COMMUNICATION SYSTEMS, ELECTRONICS & COMMUNICATION, WIRELESS & MOBILE COMMUNICATIONS)

Time: 3hours

Max. Marks: 60

Answer any five questions All questions carry equal marks

1.	Explain in detail the 1^{st} , 2^{nd} & 3^{rd} generation networks and their specification and wireless communication.	standards of [12]
2. a) b)	Briefly explain the various packet radio protocols. Discuss the following multiple access technique. i)TCDMA ii) FCDMA.	[12]
3. a)	Draw and explain the block diagram of cellular radio network.	
b)	Draw and explain the protocol stack of SS7.	[12]
4.	Explain the services offered by WSP in detail.	[12]
5. a)	Explain the functions of DCF sub layer in IEEE 802.11.	
b)	Discuss the various fields of MAC frame in detail.	[12]
6. a)	Write a short notes Piconets and Scaternets.	
b)	Discuss the various logical channels of Bluetooth.	[12]
7. a)	With a neat diagram explain the mobility in GPRS.	
b)	List and discuss the features of SMS.	[12]
8.	Explain the architecture of wireless ATM.	[12]

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