## M.Tech. Regular-Semester 2012-Electronics & Communication Engineering Sem II Cellular & Mobile Communication

P. Pages: 1 Time: Three Hours			<b>GUG/W/16/5982</b> Max. Marks : 70	
	Note	<ol> <li>Same answer book must be used for all questions.</li> <li>All questions carry equal marks. Attempt any five question.</li> <li>Due credit will be given to neatness and adequate dimensions.</li> <li>Illustrate your answers wherever necessary with the help of neat</li> </ol>	sketches.	
1.	a)	Compare 1G, 2G,2.5G,3G & 4G technologies in a detail note.	8	
	b)	Explain and compare WLL and WLAN.	6	
2.	a)	Compare Bluetooth and Zigbee technologies.	6	
	b)	Discuss IEEE 802.11 a/b/G and super G stds.	8	
3.	a)	What do mean by frequency reuse explain with suitable example.	7	
	b)	Discuss channel assignment strategies and land off strategies.	7	
4.	a)	What do you mean by interference and also discuss near and far end inter-	ference. 7	
	b)	Write a detail note on grade of service and explain steps for improving cocapacity.	overage & 7	
5.	a)	Discuss free space propagation model in detail.	8	
	b)	Discuss partition losses for same floor and between floors.	6	
6	a)	What do you mean by fading. Discuss small and large scale fading and fasmall and large scale fading.	actors affecting 8	
	b)	Explain spread spectrum techniques.	6	
7.		Write a detail note on <b>any two.</b> i) FDMA ii) CDMA iii) OFDMA	14	
8.	a)	Write a detail note on SS7 network system.	7	
	b)	Write note on any one. i) ETACS ii) GSM System	7	

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