Roll No				UNIT-III	
CS - 8303		j. :	a)	Compare SDMA, TDMA, FDMA and CDMA in terms	of
	RGPVONLINE.COM			transmission technique, signal separation, advantag disadvantages and applications?	es, 7
Examination, June 2015		,	b)	Draw the schematic diagram of QPSK generating systematic	em
Wireless Network				and explain its working?	7
(Elective-III)				OR	
Time: Three Hours	6		a)	Explain GSM architecture with neat diagram?	7
Maximum Marks			b)	What is Amplitude Modulation? Drive the equation of A wave, and draw waveform.	M 7
<i>Note:</i> Total number of questions 10. Attempt one from each	unit.			UNIT-IV	
Assume missing data, if any, suitably. UNIT-I	7	7	a)	What do you understand by wireless LAN? Write do some important requirements for wireless LANs?	<i>v</i> n 7
1. a) What do you mean by Wireless Networks? Explicitly different generations of wireless networks?	plain 7		b)	Discuss the requirements and architecture HIPERLAN-1?	of 7
b) Explain in detail, the various radio propaga	ntion o		- \	OR	
mechanisms?	7	3.	a)	With the help of a neat diagram explain the architectuand functions of MAC layer in 802.11 standard.	11'E
OR		1	b)	Give a simple architecture for Wireless ATM network	/ (e?
2. a) Derive the free space propagation model to predic	et the	:	0)	What are the biggest research challenges in Wireless AT	
received signal strength?	7			networks?	7
b) Explain the techniques for improving coverage	and			UNIT-V	
capacity in cellular systems? UNIT-II). · · ;	a)	Explain the architecture of Bluetooth networks. Discuvarious applications of Bluetooth network?	ıss 7
3. a) What are the advantages and disadvantages of CI cellular Network?	7		b) _.	Explain the concept of 2.5 G and 3 G Networks? OR	7
b) What is the need for frequency reuse? Explain	- 1	0. :	a)	What is Ad-hoc network? What are the challenging issu	ies
frequency reuse concept and show that $N = i^2 + i^2 $	ıj+j².		-	in Ad-hoc network maintenance?	7
Where N is the number of cells per cluster?	×1.	- 1	b)	Explain the architecture and MAC layer details	of
OK	uatia			Bluetooth system. RGPVONLINE.COM	7
4. a) Derive an expression for signal to interference	7				
(S/I) for 7 cell cluster system?b) What is Topology? Explain various types of wir	eless			****	

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network topologies?