Total No. of Questions :87 [Total No. of Printed Pages :2 Roll No..... EC - 7101 B.E. VII Semester Examination, December 2012 Wireless Communications Time: Three Hours Maximum Marks: 100 Minimum Pass Marks:35 Note: Attempt any five questions: All questions carry equal marks. 1) a) What are the requirements for developing a wireless mobile telephone system? b) What are the technical challenges are the limitations of conventional mobile telephone systems? 2) a) Discuss a Basic cellular system in brief. (10)b) What are the two basic types of communication channels? (10)3) a) Describe Ground Reflection (Two-Ray) model for mobile radio wave propagation. b) What are the characteristics of wideband and directional channel?

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4) a) Differentiate the Narrow band and wide band channel

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b)	stations.	(10)
a)	Write a note on antennas for the ouse stand	(10)
	Draw the structure of a wireless communication lir explain it.	(10)
a)	Explain the term frequency-dispersive fading chan	nels. (10)
b)	What are the modulation formats for a wi communication and explain any one of them in de	reless tails. (10)
) a	Give the brief introduction about microdivers	ity and
b) What the classification of Equalizing techniques.	(10)
s) V	Write a short note on any two of following:	(20)
8	 Error probability in fading channel with di reception. 	versity
1	b) Linear Equalizers	
(c) large scale fading	
	d) Multipath propagation	
	a) b) a) b) b) a) b)	a) Write a note on antennas for the base stations. b) Draw the structure of a wireless communication line explain it. a) Explain the term frequency-dispersive fading chan b) What are the modulation formats for a wireless communication and explain any one of them in decommunication and explain any one of t

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