Roll No.....

EC - 7101

B.E. VII Semester

Examination, December 2012

Wireless Communications

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks:35

PTO

Note: Attempt any five questions: All questions carry equal marks.

- 1) a) What are the requirements for developing a wireless mobile telephone system? (10)
 - b) What are the technical challenges are the limitations of conventional mobile telephone systems? (10)
- 2) a) Discuss a Basic cellular system in brief. (10)
 - b) What are the two basic types of communication channels? (10)
- Describe Ground Reflection (Two-Ray) model for mobile radio wave propagation.
 (10)
 - b) What are the characteristics of wideband and directional channel? (10)
- a) Differentiate the Narrow band and wide band channel models. (10)

EC - 7101

	b)	Give the brief introduction about the antennas for n stations.	nobile (10)
5)	a) b)	at a series of a wireless communication li	(10) nk and (10)
6)	a)	Explain the term frequency-dispersive fading char	nnels. (10)
	b)	What are the modulation formats for a w communication and explain any one of them in de	ireless etails. (10)
7		Give the brief introduction about microdivers macrodiversity.	(10)
	b) What the classification of Equalizing techniques	. (10)
8	3) V	Write a short note on any two of following: a) Error probability in fading channel with d reception.	(20) iversity
	,	b) Linear Equalizers c) large scale fading d) Multipath propagation	