* ***	Code No; 58024 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2016 CELLULAR AND MOBILE COMMUNICATIONS (Common to ECE, ETM)						K9
Time:	3 Hours		nswer any Five uestions Carry		Max. Marks:	: 75 	* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.a) b) 2.a) b)	Briefly discu Explain the t	iss the types of s				[7+8] is. [8+7]	K9
3.a) b) 4.a) b)	Give the differences between space diversity and frequency diversity techniques. Discuss antenna parameters which are considered for cellular mobile systems. [8+7] Explain adjacent channel interference? What are the effects of adjacent channel interference on mobile communications? What is crosstalk? How crosstalk can be minimized? [8+7]						K9
			pace propagation budget using path		k S		0 6 9 X X 0
6.a) b)	Discuss about umbrella pattern antennas. Explain radiation pattern multiplication. [7+8]						
		nnel:Assignment it paging channe		KÐ	KU	[7+8]	6 8 6 X
8.a) b)	What is meant by Handoff mechanism and explain the handoff strategies? What are advantages of handoff? How dropped call rate can be minimized? [8+7]						
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