VED-09 ECE- 354

R09

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)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

1.a)	Discuss Basic structure of cellular mobile system.				
b)	Briefly discuss the types of sma				[7+8]
2.a)	L L L L L L L L L L L L L L L L L L L				
b)	Define channel interference? Define channel interference?	erive the expre	ession for C/I ra	atio.	[8+7]
3.a) b)	Give the differences between sp Discuss antenna parameters wh				es. [8+7]
100	ri diri d				
4.a)	Explain adjacent channel interference on mobile commun		hat are the e	effects of adjace	nt channel
b)	What is crosstalk? How crosstal		mized?		[8+7]
	Explain the concept of free space Obtain an equation for Link buc				[7+8]
6.a)	Discuss about umbrella pattern a	antennas.			
b)	Explain radiation pattern multip				[7+8]
	Explain channel Assignment stranding channels.	ategies.			[7+8]
8.a) b)	What is meant by Handoff mech What are advantages of handoff	anism and ex? How droppe	plain the hando d call rate can b	off strategies? be minimized?	[8+7]
	dia emagna ins	**************************************			

--ooOoo--