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		Total No. of Pages : 01
Total No. of Questions : 08 M.Tech.(ECE)EL-III (2016 Batch) (Sem.–3) WIRELESS COMMUNICATION AND NETWORKS Subject Code : MTEC-301D Paper ID : [74775]		
Tim	e:3 Hrs.	Max. Marks:100
INSTRUCTIONS TO CANDIDATES : 1. Attempt any FIVE questions out of EIGHT questions. 2. Each question carries TWENTY marks.		
Q1.	State and explain in brief about NLOS multipath fading mod	lels.
Q2.	a) Discuss in detail about MIMO-MU systems.	
	b) Discuss in brief about the concept of capacity of freque variant channels.	ency selective fading for time
Q3.	a) Explain briefly about hybrid techniques in multi user syst	tems.
	b) Briefly describe COST 231 extension of Hata model.	
Q4.	Explain in brief the concept of parallel decompositio communication.	n of the MIMO channel in
Q5.	a) Explain Maximum-ratio Combining receiver diversity tec	chnique in detail.
	b) Compare STBC and STTC in detail.	
Q6.	Discuss flat fading channel model in detail. Also discuss the information in channel model.	ne significance of channel state
Q7.	a) Discuss in brief about FDMA and TDMA multiple access	s techniques.
	b) Explain the concept of link power budget analysis with su	uitable example.
Q8.	a) Discuss MIMO channel capacity and the factors on w depends.	which MIMO channel capacity
	b) Write a brief note on uplink downlink channel capacity.	