## Code No: 128FG JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, July - 2019 WIRELESS COMMUNICATIONS AND NETWORKS

Cod	le No: 128FG	R1	5	
A G	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSIT  B. Tech IV Year II Semester Examinations, July -  WIRELESS COMMUNICATIONS AND NETWO  (Electronics and Communication Engineering)  ae: 3 hours	2019	AG	/
Note AG	Part A is compulsory which carries 25 marks. Answer all questions of 5 Units. Answer any one full question from each unit 10 marks and may have a, b, c as sub questions.  PART A	tions in Part A. P  Each question ca	arries AG	/
1.a) b) c) d) e) f) g) h)	What is meant by cell splitting? Plot the signal strength for a two level handoff scheme What is meant by Ray tracing? What is Fresnel zone geometry? What is Doppler spread? Define Coherence time. What is meant by Polarization diversity? What is the purpose of an equalizer?	AG [	[2] [3] [3] [2] [2] [3] [2] [3] [3]	/
i) j) 2.a) b)	What are the advantages of WLAN? What is a wireless PANS?  PART-B  Explain handoff based on signal strength and C/I ratio. Explain the concept of lowering the antenna height to decinterference.	(50 Ma	,	f
	OR Discuss advantages of delayed handoffs. Briefly explain about Trunking and Grade of service.	AG	4461	/-
4.a) b)	Explain Free space propagation model in detail.  Discuss in detail about the indoor propagation using Ericsson Model.		point 5+5]	
5. (6.a) b)	Explain in detail about the Okumura Model.  Explain impulse response model of a multipath channel.  Discuss about small scale multipath parameters.		10] 	J.
7.a) b)	OR Discuss Clarke's model for flat fading. What are the different time dispersion parameters? Explain.	[5	5+5]	
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