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Code No: 137JK

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, December - 2019 WIRELESS COMMUNICATIONS AND METAWORKS

WIRELESS COMMUNICATIONS AND NETWORKS				
-MIN	(Electronics and Communication Engineering)			
$\cup \cap$		THE SHEET SH	arks: 75	
ľ	Vote:		A. A	
		Part A is compulsory which carries 25 marks. Answer all questions in De-	ert A Dout D	
		consists of 5 Units. Answer any one full question from each unit. Each question	II A. Part B	
		marks and may have a, b as sub questions.	on carries 10	
		questions.		
8R,	۵	8R 8R 8R 8R	(25 Marks)	
	.a)	What is intersystem handoff?	[2]	
	b)	Give basic concepts sectoring.	[3]	
	c)	Define large scale propagation model.	[2]	
	d)	Write the three basic propagation mechanisms.	[3]	
	e)	What are the factors influencing small scale fading?	[2]	
$\bigcirc \sqcap f$	f).	What are the Time Dispersion Parameters of Multipath channels?	[3]	
	g) :	of the fundamentals of equalization.		
` ' ' h	1)	Discuss about Zero forcing algorithm.		
i	)	List the advantages of WLAN.	[3]	
j	)	Compare standards of IEEE 802.11 a, b, g and n standards.	[2]	
		a, a, b, and it officer us.	[3]	
		PART – B		
3 <del> </del> <del>2</del> .		Explain in details about power control for reducing interference.	(50 Marks)	
3.	]	Discuss different techniques used for improving coverage and capacity in cellula		
		and capacity in cellula	r systems.	
4		Derive the equation of the Path loss using Two-Ray Model with neat diagrams.  OR	[10]	
<b>3 −√5.</b>	I f	Explain about indoor propagation models of Partition losses in same floor are loors.	id between [10]	
6.	L	Discuss in detail different types of small scale fading,	[10]	
7.	F	OR Explain in detail about parameters of makilian this is		
		Explain in detail about parameters of mobile multipath channels.	[10]	
⋛ 💆8.	E	Explain the algorithms for adaptive equalization.	[10])	
· ' '9.	Ä	What are the different receiver diversity combining techniques? Explain.		
10.a b	i) E	xplain different types of WLAN Topologies. riefly explain about the system and protocol architecture of 802.11.  OR	[4+6]	
$\begin{cases} \begin{cases} 11.a \\ b \end{cases} \end{cases}$	) E	that is wireless local loop and how does it work?  EEE 802.11 WLAN.	idopted in	