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Code No: 137JK

R16

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

A Tin	ne: 3 Hours Max. Max. Max. Max. Max. Max. Max. Max.	ırks://5
Not	e: This question paper contains two parts A and B.	/ /\
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B		
consists of 5 Units. Answer any one full question from each unit. Each question carries 10		
	marks and may have a, b as sub questions.	
A [].a) b)	What is intersystem handoff? Give basic concepts sectoring.	(25 Marks) [2]
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]
$\bigwedge \bigcap_{n}^{f}$	What are the Time Dispersion Parameters of Multipath channels?	[3]/\
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Give the fundamentals of equalization. Discuss about Zero forcing algorithm.	
i)	List the advantages of WLAN.	[3] \ [2]
j)	Compare standards of IEEE 802.11 a, b, g and n standards.	[3]
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	PART – B	
AG.	Explain in details about power control for reducing interference.	(50 Marks)
3.	Discuss different techniques used for improving coverage and capacity in cellula	r systems.
4	Derive the equation of the Path loss using Two-Ray Model with neat diagrams. OR	[10]
\triangle \bigcirc .	Explain about indoor propagation models of Partition losses in same floor and floors.	d between [10]
6.	Discuss in detail different types of small scale fading. OR	[10]
7.	Explain in detail about parameters of mobile multipath channels.	[10]
⊗	Explain the algorithms for adaptive equalization. OR What are the different receiver diversity combining techniques? Explain.	[10]
10.a) b)	Explain different types of WLAN Topologies. Briefly explain about the system and protocol architecture of 802.11. OR	[4+6]
(11.a) (1.b)	What is wireless local loop and how does it work? Explain and compare the media access control mechanism of DCF methods at IEEE 802.11 WLAN.	ndopted (in