Code No: 118FG

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2017 WIRELESS COMMUNICATIONS AND NETWORKS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 75

Note: 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, c as sub questions.

PART - A

	THE TAKE			
1.a) b) c) d) e) f) g) h)	What are prioritizing handoffs? Explain about Sectoring. Discuss about Hata model. Write about Site specific modeling. Discuss about level crossing. Write a short notes on Doppler spread Explain about frequency diversity. Discuss about Zero forcing algorithm.	38	[2] [3] [2] [3] [2] [3] [2]	5 Marks)
i) j)	Write about WLL. List the disadvantages of WLAN. PART - B	3R	[3] [2] [3]	
2	Evoloi: in Letter		3.4	

3.2	2.35 the disadvantages of WLAN.	
	PART - B	
2.	Explain in detail about Trunking and Grade of Service. OR	(50 Marks)
3.a) b) 4a) b)	Discuss briefly about frequency reuse. Write short notes on channel assignment strategies. Discuss about Brewster angle. Explain about Longley- Ryce model	[5+5]
5.	On	[3+7]
6. 7.	Explain in detail about Ground Reflection Model Discuss in detail about the factors that influence small scale fading. OR Discuss about fast fading and slow fading.	[10]
8.	Explain in detail about Decision Feedback Equalization.	
9.	OR Derive the expression for Maximal Ratio Combining Improvement	[10]
10.	Discuss in detail about WLAN Topologies.	[10]
11.	Write short notes on: a) Wireless PANS	
	b) Hiper LAN	[5+5]