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	Cod	de No: 128FG							
	AG	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2019 WIRELESS COMMUNICATIONS AND NETWORKS (Electronics and Communication Engineering) Max. Marks: 75	A						
	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								
	AG	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  (25 Marks)	A						
	1.a)								
	b) c) d) e) f)	Write short notes on GOS.  Discuss about Brewster angle.  Write a short note on signal reflections in a flat terrain.  Explain Doppler shift.  Discuss about slow fading.  [3]  [2]  [3]  [3]  [3]	A						
	g) h) i) j)	Discuss the significance of MLSE. [2] Give the differences between linear and non-linear equalizers. [3] Discuss the differences between the 802.11a and HIPERLAN-2. [2] State the challenges faced by WLAN industry. [3]	Δ						
	2.a)	Explain frequency reuse concept. (50 Marks)	1						
	b)	Discuss about trunking and Grade of service. [5+5]  OR							
,	3.a) A ( b)	How we can improve coverage and capacity in cellular system?  Determine the number of cells in cluster for the following values of the shift Parameters and j in a regular hexagon geometry pattern: (i) i=2 and j=4 (ii) i=3 and j=3 [545]	A						
	4.a) b)	Discuss in detail i) The propagation in near distance ii) Long distance propagation Explain knife-edge diffraction model. [5+5]							
	5.a)	OR Explain the phase difference between direct and reflected paths in detail.							
	△ (-6.a)	Discuss about indoor propagation models in detail.  Explain Fading effects due to multipath time delay.  [5+5]	A						
	b)	Discuss Ricean distribution. [5+5]  OR							
	7.a) b)	Explain different types of small scale fading.  Discuss about frequency selective fading in detail.  [5+5]							
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	8.a) b) (9.a) b)	Discuss abou Explain in de Derive the L	at time diversity a at equal gain and etail about non lind MS algorithm for			Д		
	10.a) b)	wireless LA	services offered N.  MAC managemer on HIPERLAN. PAN. Give its ma	ot sub layer of IF	FF 802 11		[5+5]	Д
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