ANURAG Engineering College

(An Autonomous Institution)

IV B. Tech II Semester Regular/Supplementary Examinations, April - 2024 WIRELESS COMMUNICATIONS & NETWORKS (ELECTRONICS AND COMMUNICATION ENGINEERING)

Time: 3 Hours Max. Marks: 75

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Section – A (Short Answer type questions)		(25 Marks) Course B.T Marks				
Answer All Questions		Outcome	Level	Maiks		
1	Write about improving coverage capacity in cellular systems.	CO1	L1	2M		
2.		CO1	L2	3M		
۷.	cellular network?	COI	LL	3171		
3.		CO2	L2	2M		
٥.	communication.	CO2	LL	Z1VI		
1		CO2	L1	3M		
4.		CO2	LI	SIVI		
_	electromagnetic waves?	CO2	1.0	2M		
5.	Compare between FDMA and TDMA.	CO3	L2			
6.	What is Doppler shift?	CO3	L1	3M		
7.	Explain the advantages and limitations of linear equalizers.	CO4	L2	2M		
8.	How does equalization help in combating inter symbol interference	CO4	L2	3M		
	(ISI).	G0.#	T 1	03.6		
	List out the advantages and disadvantages of wireless LAN.	CO5	L1	2M		
10.	Explain the wireless LAN topologies.	CO5	L2	3M		
	Section B (Essay Questions)					
Answe	r all questions, each question carries equal marks.	(5	X 10M	=50M)		
11. A)	How can prioritizing handoffs help in improving the quality of	CO1	L2	10M		
	service in a cellular network? Discuss the handoff technique.					
	OR					
B)	Discuss the system capacity-co channel interference.	CO1	L2	10 M		
12. A)	Explain the hata propagation model and discuss the	CO2	L3	10M		
12.11)	knife edge diffraction model.	002	20	202.2		
	OR					
B)	What is the two-ray ground reflection model in wireless	CO2	L3	10M		
2)	communication? And What are the limitations of the two-ray	002				
	ground reflection model?					
	Browne removed moder.					
10 4)	D' (1 ' 1	002	τ ο	10) (
13. A)	Discuss the impulse response model of a multipath channel.	CO3	L2	10M		
T)/	OR	002	L2	10M		
B)	Explain the space division multiple access.	CO3	LZ	TOIVI		
14. A)	Discuss the linear equalizers and decision-feedback equalization	CO4	L3	10 M		
	(DFE).					
OR						
B)		CO4	L2	10M		
	diversity? How does a RAKE receiver improve the performance of					
	the system.					

R18

Question Paper Code: R18A42EC02

15. A)	Discuss the IEEE802.16 and its enhancements and wireless PANs.	CO5	L2	10M
B)	OR Discuss the IEEE802.11 a,b,g standard and their merits and limitations.	CO5	L2	10M