

Test: CLAT-1

Course Code & Title: 18ECC301T, WIRELESS COMMUNICATION

Year & Sem: IV & VII

Date: 8/8/2023

Duration: 1 Hr

Max. Marks: 25

Course Articulation Matrix:

	18ECC301T - Wireless Communication	Program Outcomes (POs)														
		Graduate Attributes												PSO		
COs	Course Outcomes (COs)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1	Interpret the concepts of Wireless communication and basic cellular networks	3	-	-	3	-	-	-	-	-	-	-	2	-	-	-
CO-2	Analyze different Radio wave propagation models for cellular communication	-	3	-	3	-	-	-	-	-	-	-	-	-	-	3
CO-3	Apply different multipath propagation channel models in wireless systems	-	3	3	-	-	-	-	-	-	-	-	-	-	-	2
CO-4	Illustrate the Link performance improvement techniques	-	3	-	-	-	-	2	-	-	-	-	-	-	-	3
CO-5	Summarize different wireless communication standards and systems	-	-	2	-	-	2	-	-	-	-	-	-	2	-	-

Part - A (5 x 1 = 5 Marks) Instructions: Answer all Questions					
Q. No	Questions	Marks	BL	CO	PO
1	Adjacent channel interference can be minimized through____ a. Changing frequency of base stations b. Careful filtering and channel assignments c. Increasing number of base stations d. Increasing number of control channels	1	1	1	1
2	Hard handoff is also known as _____ a. Partial Handoff b. Make before Make c. Break before make d. Make before break	1	1	1	1
3	During the handoff process in the cellular system, the margin (Threshold) is given by a. $\Delta = \text{Pr}(\text{HANDOFF}) - \text{Pr}(\text{MAX. USABLE})$ b. $\Delta = \text{Pr}(\text{HANDOFF}) - \text{Pr}(\text{MIN. USABLE})$ c. $\Delta = \text{Pr}(\text{SAR OF THE MOBILE}) - \text{Pr}(\text{MIN.USABLE})$ d. $\Delta = \text{Pr}(\text{CELL}) - \text{Pr}(\text{BASE STATION})$	1	2	1	4
4	In hexagonal shaped type of cell with 6 vertices, how many antennas are needed for edge excitation a. 1 b. 6 c. 3 d. 2	1	4	1	4

Evaluation Sheet

Name of the Student:

Register No.:

Part- A (5 x 1= 5 Marks)					
Q. No	CO	PO	Maximum Marks	Marks Obtained	Total
1	1	1	1		
2	1	1	1		
3	1	4	1		
4	1	4	1		
5	1	4	1		
Part- B (2 x 4= 8 Marks)					
6	1	12	4		
7	1	12	4		
8	1	1	4		
Part- B (2 x 4= 8 Marks)					
9a	1	1	10		
9b	1	4	2		
10a	1	1	8		
10b	1	4	4		

Consolidated Marks:

CO	Maximum Marks	Marks Obtained
1	25	
Total		

PO	Maximum Marks	Marks Obtained
1	14	
4	19	
12	8	
Total	41	

Signature of Course Teacher