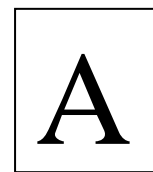


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**SNS College of Technology, Coimbatore-35.**  
**(An Autonomous Institution)**  
**B.E/B.Tech- Internal Assessment -I**  
**Academic Year 2023-2024 (Even Semester)**  
**Sixth Semester**  
**Electronics & Communication Engineering**  
**19ECT311 – Wireless Communication**

**Time: 1<sup>1/2</sup> Hours****Maximum Marks: 50****Answer All Questions****PART - A (5x 2 = 10 Marks)**

			CO	Blooms
1.		Distinguish between 3G and 4G networks.	CO1	Ana
2.		Define foot print and dwell time.	CO1	Rem
3.		Recall the techniques used to expand the capacity of cellular system.	CO1	Rem
4.		Outline the significance of propagation model	CO2	Und
5.		Show the received power in free space propagation model.	CO2	Und
<b>PART – B (2x13) + (1x14) = 40 Marks</b>				
			CO	Blooms
6.	(a)	Analyze the functions of WLAN and PAN in detail.	13 CO1	Ana
		(or)		
	(b)	Examine channel assignment and handoff strategies in detail.	13 CO1	Ana
7.	(a)	Build the basic propagation mechanism for the wireless communication fading channel and discuss the pros and cons in the implementation.	13 CO1	App
		(or)		
	(b)	Summarize briefly about Free Space Propagation model.	13 CO2	Und
8.	(a)	How the frequency allocation handled in cellular systems? If 7 KHz bandwidth is allotted for a Mobile network A, express the frequency reuse for this network with neat sketches.	14 CO1	Rem
		(or)		
	(b)	Explain how to improve coverage and channel capacity in cellular systems.	14 CO1	Und

**Abbreviations:** Co- Course Outcomes, Rem-Remembrance, Und-Understanding, App- Apply, Ana-Analyze, Eva-Evaluate, Cre-Create

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**Course Coordinator**

**Teaching Coordinator**

**HoD/Dean**