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**SNS College of Technology, Coimbatore-35.**  
**(An Autonomous Institution)**  
**B.E/B.Tech- Internal Assessment -I**  
**Academic Year 2022-2023(Even Semester)**  
**Sixth Semester**  
**Electronics and Communication Engineering**  
**19ECT311 – Wireless Communication**

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

				<b>CO</b>	<b>Blooms</b>
1.		Define MS, BS and MSC.		CO1	Rem
2.		Classify the cellular interference and explain.		CO1	Und
3.		Recall the techniques used to expand the capacity of cellular system.		CO1	Rem
4.		Outline the free space propagation model.		CO2	Und
5.		Inspect the necessity of Link budget		CO2	Ana
<b>PART – B (2*13) + (1*14) = 40 Marks</b>					
				<b>CO</b>	<b>Blooms</b>
6.	(a)	Distinguish the 2G - 3G - 4G cellular networks and explain their features in detail.	13	CO1	Ana
		(or)			
	(b)	Examine the techniques to improve coverage and channel capacity in cellular systems.	13	CO1	Ana
7.	(a)	Explain the Cellular architecture with neat sketch.	13	CO1	Und
		(or)			
	(b)	Summarize about basic propagation mechanisms involved in wireless communication.	13	CO2	Und

8.	(a)	Apply the mechanism to calculate the power requirement to establish the wireless communication link.	14	CO1	App
		(or)			
	(b)	Build the model using both fading and non-fading channels and analyse the power transmission characteristics.	14	CO2	App

**Abbreviations:** Co- Course Outcomes, Rem-Remembering, Und-Understanding, App- Applying, Ana-Analysing, Eva-Evaluating, Cre-Creating

**Course Coordinator**

**Teaching Coordinator**

**HoD/Dean**