PRN:		Course Code :	ECE308R1

Third Year **B. Tech** End Semester Examination Summer 2023

Wireless Communication Engineering

Day and Date: Thursday, 22/06/23 Max Marks: **100**

Time : 10:30 to 1:30 pm Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain in detail cell splitting and sectoring	08	L1	CO1
	b)	Draw and explain evolution of wireless cellular system	08	L2	CO1
		OR			
	b)	Illustrate trunking and grade of service	08	L3	CO1
Q.2		**Attempt the following**			
	a)	Analyse in detail partition loss	08	L5	CO2
	b)	Explain in detail Durkins model	08	L2	CO2
		OR			
	b)	Explain in detail longely rice model	08	L1	CO2
Q.3		**Attempt any two from the following**			
	a)	Analyse parameters of mobile multipath channels	08	L5	CO3
	b)	write short note on Rayleigh fading distribution	08	L1	CO3
	c)	Illustrate Ricean fading distribution	08	L2	CO3
Q.4		**Attempt any two from the following**			
	a)	Write short note on cellular digital packet data	08	L3	CO4
	b)	What is network service part of ss7	08	L3	CO4
	c)	Difference between packet vs circuit switching for PCN	08	L2	CO4
Q.5		**Attempt any Two of the following**			
	a)	Explain in detail fixed network transmission hierarchy	09	L2	CO5
	b)	What is Bluetooth security? Explain in detail.	09	L2	CO5
	c)	Explain IEEE 802.11	09	L2	CO5
Q.6		**Attempt any Two of the following**			
	a)	Explain wireless ATM and Bluetooth	09	L2	CO5
	b)	Differentiate between infrastructure based and Ad-hoc wireless network	09	L4	CO5
	c)	Explain the different layers of WAP architecture	09	L2	CO5

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