PRN:		Course Code :	ECE308R1

Third Year **B. Tech** End Semester Examination Summer 2024

Wireless Communication Engineering

Day and Date: 30/05/2024, Thu Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain in detail what is frequency reuse	08	L1	CO1
	b)	Explain channel assignment strategies	08	L2	CO1
		OR			
	b)	Draw and explain microcell zone	08	L3	CO1
Q.2		**Attempt the following**			
	a)	Write a short note on two ray model	08	L1	CO2
	b)	Explain in detail okumura model	08	L2	CO2
		OR			
	b)	Explain in detail Hata model	08	L1	CO2
Q.3		**Attempt any two from the following**			
	a)	Explain in detail direct RF pulse system	08	L2	CO3
	b)	Elaborate in detail frequency domain channel sounding	08	L4	CO3
	c)	Explain in detail spread spectrum sliding correlation channel sounding	08	L2	CO3
Q.4		**Attempt any two from the following**			
	a)	Describe advanced radio data information system	08	L3	CO4
	b)	Elaborate Integrated service Digital Network	08	L3	CO4
	c)	Explain transaction capabilities application part TCAP packet reservation multiple access	08	L1	CO4
Q.5		**Attempt any Two of the following**			
	a)	With neat sketch draw the high level overflow of Bluetooth security architecture together with the Security components.	09	L1	CO5
	b)	Write a short note on infrared radio transmission	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	L4	CO5
	b)	Differentiate between infrastructure based and Ad-hoc wireless network	09	L2	CO5
	c)	Explain the different layers of WAP architecture	09	L3	CO5

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