Code No: R18A0425

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Regular/Supplementary Examinations, April 2023 **Wireless Communications & Networking**

				(EC	CE)						
		Roll No									
ime: 3 hours Max. Marks: 70											
Note: This question paper Consists of 5 Sections. Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.											
Quest	1011 110	oni each SECTION and t	acii Qu		**	28 14	marks.	•			
				SEC	CTIO	N-I					
1	\boldsymbol{A}	Describe the evolution	of mob				nicatio	ns.			[7M]
	\boldsymbol{R}	Explain the function of	cordle	ss tele	nhone	svste	-m				[7M]

1	\boldsymbol{A}	Describe the evolution of mobile radio communications.	[7M]
	\boldsymbol{B}	Explain the function of cordless telephone system.	[7M]
		OR	
2	\boldsymbol{A}	What is the function of Wireless Local Loop? Explain.	[7M]
	\boldsymbol{B}	Write short notes on Wireless Local Area Networks and Bluetooth.	[7M]
		SECTION-II	
3		Derive received power equation for two ray ground reflection model.	[14M]
		OR	
4	\boldsymbol{A}	What is diffraction? Describe about Knife-edge Diffraction Model.	[8M]
	\boldsymbol{B}	Define reflection and Brewster Angle.	[6M]
		SECTION-III	
5	\boldsymbol{A}	Explain about the impulse response model of multipath channel.	[7M]
	\boldsymbol{B}	Define Coherence Bandwidth, Doppler Spread and Coherence Time.	[7M]
		OR	
6	\boldsymbol{A}	Define fading. What are the parameters influences the small scale fading?	[8M]
	\boldsymbol{B}	Explain about various parameters of mobile multipath channels.	[6M]
		SECTION-IV	
7	\boldsymbol{A}	Describe the architecture of 802.11.	[7M]
	\boldsymbol{B}	Explain the physical layer characteristics of 802.11.	[7M]
		OR	
8	\boldsymbol{A}	What is the significance of Wi-Fi Protected Access.	[7M]
	\boldsymbol{B}	Describe the baseband specification of Blue tooth.	[7M]
		SECTION-V	
9		Explain the system architecture of GPRS. List the applications.	[14M]
		OR	
10	\boldsymbol{A}	Write short notes on HIPERLAN and HIPERLAN-2.	[10M]
	\boldsymbol{B}	What are the features of Wireless ATM?	[4M]