**Code No: R15A0432** 

## MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

## IV B.Tech - II Semester Supplementary Examinations, April 2023 Wireless Communications & Networks

(ECE)										
Roll No										

Time: 3 hours Max. Marks: 75

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

\*\*\*

## PART-A (25 Marks)

1)	777.'. 1 C ' 1 ' ' ' ' ' '	[0]
1). a	Write some examples for wireless communication system.	[2M]
b	Write the features of cordless telephone systems	[3M]
c	Define large scale propagation model	[2M]
d	Discuss the objectives of Okumura model	[3M]
e	What is Doppler spread?	[2M]
f	Discuss about Ericsson Multiple Breakpoint Model.	[3M]
g	What are enhancements in IEEE 802.15	[2M]
h	Explain Advantages & Disadvantages of WLAN	[3M]
i	Write note on data oriented CDPD network.	[2M]
j	Explain briefly about Wireless ATM	[3M]
Ü	PART-B (50 MARKS)	
	SECTION-I	
2	Explain briefly about WLL and LMDS.	[10M]
_	OR	[]
3	Write a short note on following:	
_	i) paging systems	[5M]
	ii) Personal Area Network	[5M]
	11) I ersonal Area Network	[61,1]
	SECTION-II	
4	Explain knife-edge diffraction model and multiple knife-edge diffraction.	[10M]
-	OR	[]
5	Discuss the concept of reflection from dielectrics and Brewster angle.	[10M]
	SECTION-III	
6	Explain briefly about Two-ray Rayleigh fading model?	[10M]
-	OR	[ <u>-</u> ]
7	Explain briefly about parameters of mobile multipath channels.	[10M]
,	Explain offerty about parameters of moone multipath chamiles.	

## SECTION-IV

8	Describe the IEEE 802.15 logical link control and adaptation protocol.	[10M]
	OR	
9	Illustrate IEEE 802.11 architecture and services.	[10M]
	SECTION-V	
10	Discuss in detail about mobile data networks.	[10M]
	OR	
11	Explain the functioning of GSM with basic architecture.	[10M]

\*\*\*