Code No: R17A0432 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: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

	<u>SECTION-1</u>				
1	Explain briefly about MODERN WIRELESS COMMUNICATION SYSTEMS.	[14M]			
	OR				
2	a) Explain Wireless local loop (WLL) and LMDS	[7M]			
	b) Explain and compare common wireless communication systems	[7M]			
	SECTION-II				
3	a) Explain Ground Reflection (Two-Ray) Model	[7M]			
	b) Explain Wideband PCS Microcell Model	[7M]			
	OR				
4	a) Explain Geometry, Knife edge Diffraction Model	[7M]			
	b) Explain Attenuation Factor Model	[7M]			
	<u>SECTION-III</u>				
5	a) Explain Clarke's model for flat fading	[7M]			
	b) Explain Model of a multipath channel and relationship between bandwidth	[7M]			
	and received power.				
	OR				
6	a) Explain factors influencing small scale fading,	[7M]			
	b) Explain Time Dispersion Parameters of Multipath channels.	[7M]			
	SECTION-IV	[7M]			
7	a)Explain about the IEEE802.11 protocol architecture and services				
	b) Explain 802.11 Physical Layer				
_	OR	[7M]			
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	b) Explain Wi-Fi Protected Access	[7M]			
•	<u>SECTION-V</u>	[7M]			
9	9 a) Distinguish HIPERLAN-1and 802.11 WLAN.				
	b) Draw and explain the architecture and layers of HIPERLAN.	[7M]			
10	OR	[7M]			
10	10 a) Explain data oriented CDPD network				
	b) Write a short notes GSM and GPRS ***	[7M]			
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