Re	eg. No. :									
Question Paper Code: 1067169										
B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024 Sixth Semester Electronics and Communication Engineering EC 8004 – WIRELESS NETWORKS (Regulation 2017) Three Hours  Maximum: 100 Marks										S
Answer ALL questions										
PART – A				$(10 \times 2 = 20 \text{ Marks})$						
What are the advant		less LAN	?							
What is a Care of address in Mobile–IP?										
What is tunneling?										
What are the functions of Radio Network Control (RNC)?										
Write the features of CDMA-2000.										
Mention the limitations of GPRS.										
List the difference between MMDS and LMDS?										
Write the difference between 3G and 4G networks.										
Give the various smart antenna techniques used in wireless networks.										
	PAR	Т – В			(5	x 13	= 65	Ma	rks)	
Explain in detail ab other networks.	out the IEEE	802.11	protoco	ol arcl	hitect	ure an	ıd b	ridgi	_	th 3)
		(OR)								

Describe the user scenario architecture and protocol stack of Bluetooth

(13)

Time: Three Hours

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11. (a)

(b)

technology.

12. (a)	How can tunneling and encapsulation be performed in Mobile IP? Explain.	(13)						
	(OR)							
(b)	b) Discuss in detail how packets are routed in MANET using Dynamic source roalgorithm.							
13. (a)	) Draw the architecture for UMTS core network and explain its working.							
(OR)								
(b)	Discuss the principle of TD-CDMA and TD-SCDMA.	(13)						
14. (a)	Elaborate on the 'Internetworking architecture' used for connecting WLAN GPRS system.	with (13)						
	(OR)							
(b)	Explain about Multichannel Multipoint Distribution System in detail.	(13)						
15. (a)	a) Explain the key challenges faced by 4G networks and also propose solution how to mitigate those challenges.							
	(OR)							
(b)	Explain in detail about Adaptive modulation and Coding with time slot schedin detail.	duler (13)						
	PART - C (1 x 15 = 15 Max)	rks)						
6. (a)	Draw the architecture of Wireless HART and explain the principle applications.	and (15)						
	(OR)							
(b)	(b) Draw the IMS architecture and explain the principle.							
	XXXX							