### LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

# UDEAT - WESTER

#### **B.Sc.** DEGREE EXAMINATION - **COMPUTER SCIENCE**

#### SIXTH SEMESTER - APRIL 2023

#### 16/17/18UCS6MC01 - WIRELESS COMMUNICATION NETWORKS

	te: 29-04-2023 Dept. No. ne: 09:00 AM - 12:00 NOON	Max. : 100 Marks	
	PART – A	(10x 2 = 20 Marks)	
Q. No	Answer ALL the Questions		
1	Write some examples for wireless communication system.		
2	What is base station?		
3	In GSM, classify the TDMA frame structure.		
4	What is CDMA?		
5	Classify the mobile data networks.		
6 7	What are the new elements added to the GSM architecture to support C What is extended service set (ESS) in IEEE802.11?	SPRS?	
8	List out the types of HIPERLAN.		
9	What is firewall?		
10	Write the purpose of DHCP.		
	PART – B	$(5 \times 8 = 40 \text{ Marks})$	
	Answer ALL the Questions		
11	1 (a) Identify and write the differences between infrastructure and ad hoc network topolog (Or)		
	(b) Describe the power management and energy-saving techniques us	sed in cellular networks.	
12	(a) Draw a neat diagram of the forward channel in CDMD and explain	l <b>.</b>	
	(Or)		
	(b) Discuss the purpose of pilot channels in CDMD with neat diagram		
13	(a) Give an overview of the services CDPD offers and the interfaces it	t uses.	
	(Or)		
	(b) What is GPRS? Explain its architecture with neat diagram.		
14	(a) Explain the IEEE 802.11 MAC management sub layer.		
	(Or)		
	(b) Explain about the elements of core protocol in Bluetooth.		
15	(a) Discuss the TCP snooping with an example.		
	(Or)		
	(b) Elaborate the concept of transaction oriented TCP.		

	PART – C	$(2 \times 20 = 40 \text{ Marks})$
	<b>Answer any TWO Questions</b>	
16	(a) Elucidate the architectural methods required to scale the capacity of celebratechnology.	llular (10)
	(b) What are logical channels and explain its categories in GSM technology	r. (10)
17	(a) Explain the Mobile application protocol with neat diagram.	(10)
	(b) Elaborate IEEE 802.11's physical layer.	(10)
18	(a) Compare the different approaches used for mobile TCP.	(10)
	(b) Describe the idea of tunneling in depth using an example.	(10)

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