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			Reg. No. :	
			Question Paper Code: 10456	
		M.I	E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.	
			Second Semester	
			Communication Systems	
			CU 4202 – ADVANCED WIRELESS NETWORKS	
			(Regulations 2021)	
Tim	e · Th	ree ho	.0	0 marks
			Answer ALL questions.	
			PART A — $(10 \times 2 = 20 \text{ marks})$	
1.	Stat	e the	major difference between LTE and LTE-A.	
2.			principle of scale-free network.	
3.			ertical handoff?	
4.	List	the v	arious data associated with the PDP context.	The state of the s
5.	Wha	at are	the services supported by link layer?	
6.	Stat	te the	difference between link state routing and distance vector rou	ting.
7.	Nan	ne the	factors on which the Cellular Residence Time (CRT) depends	s on.
8.			the two broadly used methods in prioritizing Handoff?	
9.			the consequences of Network Congestion in Wireless IP netw	orks?
10.	Wha	at are	the four QoS classes?	
			PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	(a)	(i)	Explain small world network and its properties.	(6)
		(ii)	Deduce the expressions for number of non lattice edges, path length and clustering coefficient of a regular rin network.	average g lattice (7)
			Or	Miles
	(b)	(i)	Explain the salient features of IEEE 802.11.	(6)
		(ii)	Explain wireless network connectivity.	(7)

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34.			
12.	(a)	(i) Explain Evolved Universal Terrestrial Radio Access Netw (E-UTRAN).	district.
		Explain circuit switched domain and packet switched domain core network.	(6) in (7)
		Or	C-7
	(b)	Explain the following 3G PP Technical specification groups:	
		(i) TSG GERAN (GSM EDGE Radio Access Network),	(6)
		(ii) TSG RAN (Radio Access Network).	(7)
13.	(a)	(i) Explain the adaptive Hybrid ARQ scheme for wireless links.	(6)
		(ii) Explain routing with topology aggregation.	(7)
		Or	
	(b)	(i) Explain any one data aggregation model for Wireless Networks.	(6)
		(ii) Explain stochastic learning link layer protocol.	(7)
14.	(a)	Discuss in detail about Handoff prioritization techniques in Cellusystems.	
		 (i) Describe the various distributions of Cell Residence Time(CRT). (ii) Explain Mobility prediction and its significance in Pico and Micellular Networks. 	
15.	(a)	(i) Describe the QoS Management architecture.	(6)
		(ii) What are the QoS management functions for end-to end IP QoS UMTS Networks.	in (7)
		Or	
	(b)	(i) What is an EPS bearer in LTE Network? Explain.	(6)
		(ii) Explain the various QoS service attributes.	(7)
		PART C — $(1 \times 15 = 15 \text{ marks})$	
16.	(a)	Demonstrate the 3GPP conceptual network architecture.	
		Or waste has digast the	
	(b)	Devise simple mobility management models for IP and 3GPP. Compthem.	are
		(b) (c) Explain the subset was a series of the section	
		Surellation & earns are large stational (in)	120
		2 104	100