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	Reg. No. :
	Question Paper Code: 90443
	B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.
	Sixth Semester
	Electronics and Communication Engineering
	EC 8004 – WIRELESS NETWORKS
	(Regulations 2017)
Tim	e: Three hours Maximum: 100 marks
	Answer ALL questions.
3. 4. 5. 6.	Why is IEEE 802.15.4 called Low-rate WPAN? Enumerate the difference between routing in a wired network and adhoc wireless network. How does TTL affect a packet in transit? Draw the UMTS architecture. How does UMTS support different user data rates?
7.	What are the advantages of LMDS?
8. 9.	Illustrate session mobility using an example. What are the features of 4G mobile network?
10.	Briefly comment on the role of Multicarrier modulation on 4G technologies.

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11. (a)	(i) Using necessary diagrams explain IEEE 802.11 protocol architecture. (8)
	(ii) What are the requirements for handover in WATM environment? (5)
	° Or
(b)	(i) Using necessary diagrams explain Bluetooth architecture. (8)
	(ii) Comment on IEEE 802.15.4 and its super frame mode. Also explain
	how the MAC layer of IEEE 802.15.4 is different from that of
	Bluetooth. (5)
12. (a)	Explain how a correspondent node can send an IP packet to mobile node.
	Also explain how a mobile node finds a foreign agent when it moves into another network and the subsequent process of registration. Use suitable
	diagrams. (13)
	Or
(b)	List out the difference between traditional wired networks and adhoc
(6)	networks. Give the reasons why traditional routing algorithms are not
	preferred for mobile adhoc networks. (13)
13. (a)	Using suitable diagrams explain UMTS core network architecture Or
(b)	Using suitable diagram explain the l_u and l_{ur} interface of UTRAN (13)
14. (a)	Explain the GIF/RAI discovery procedure the associated signaling.
	Briefly explain the new interfaces in the loose coupling of WLAN-GPRS
	integration. (13)
	Or
(b)	What is MMDS and how is it different from LMDS? (13)
15. (a)	How is fourth generation wireless network different from third
	generation wireless network? Also explain the key challenges in 4G and
	the proposed solution. (13)
	Or
(b)	What are smart antenna techniques and how does it benefit the fourth-
	generation wireless neworks? (13)
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