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	Reg. No. :	
	Question Paper Code: 20440	
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.	
	Sixth Semester	
	Electronics and Communication Engineering	
	EC 8004 — WIRELESS NETWORKS	
	(Regulations 2017)	
Tim	ne : Three hours Maximum : 100 marks	
	Answer ALL questions.	
	PART A — $(10 \times 2 = 20 \text{ marks})$	
1.	List the services provided by IEEE802.11.	
2.	Outline the challenges in 6LoWPAN.	
3.	Mention the different entities in mobile IP.	
4.	Outline the functions of SIP.	
5.	Mention the techniques used in HSDPA.	
6.	Define user equipment.	
7.	Write the functions of tight coupling in internetworking.	
8.	Mention the networking models used to describe the protocol.	-
9.	Based on transmitting and receiving, how many kinds of antennas are available?	
10.	State the design challenges of 4G system.	
	PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	(a) Analyze the basic structure and handover scenarios of HiperLAN2 with necessary diagrams.	
	Or	
	(b) Infer the characteristics and architecture of IEEE 802.15.4 WPAN.	

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9096 com	12.	(a)	(i) Draw and explain the header format of IPv6.	(6)
10/10			(ii) Infer about the basic structure of hierarchical mobile IPv6.	(7)
. 24			Or	
0 · 38 am)		(b)	Explain the working principle of CoAP Protocol with architecture message format.	and
AUR	13.	(a)	Summarize the following in detail:	
Ellam.			(i) UTRAN Interfaces.	(5)
ganada sa	lı		(ii) Transport Network Control plane and Transport Network plane.	User (8)
,			Or	
^		(b)	Describe the following in detail:	
Sex			 Packet Data Serving Node (PSDN) in CDMA 2000. 	(6)
			(ii) Base Transceiver Station (BTS).	(7)
(Z)	14.	(a)	(i) Brief the WLAN system architecture reusing the subscription.	3GPP (6)
			(ii) How is authentication achieved in loose coupling architecture?	(7)
			Or	
4		(b)	(i) Illustrate the MMDS system for digital video and wireless inte	rnet.
Q.		1-7		(10)
-10			(ii) Write the advantages of LMDS.	(3)
	15.	(a)	Explain end to end architecture of LTE network.	
			Or	
		(b)	(i) Explain about cognitive Radio.	(10)
			(ii) List the different types of MCM techniques.	(3)
			PART C — (1 × 15 = 15 marks)	
	16.	(a)	Discuss the features, importance and working of smart an techniques.	tenna (15)
			Or	
		(b)	Illustrate the mechanism of tunnelling and encapsulation in mob packet delivery with necessary diagrams.	ile IP (15)
			about the second covered are reflected and get section (a)	
			and the same of th	
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