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Question Paper Code: 70482

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Sixth Semester

Electronics and Communication Engineering

EC 8004 — WIRELESS NETWORKS

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What is HiperLAN1 and HiperLAN2?
- 2. Mention the different standards of WIFI Network.
- 3. Write the features of COAP Protocol.
- 4. List out the Routing protocols to support IPV6.
- 5. State the applications of UMTS.
- 6. What are the 3G standards of CDMA-2000 family?
- 7. Give the advantages and disadvantages of GPRS.
- 8. What are the requirements of internetworking?
- 9. List out the challenges of 40 Network.
- 10. Why Multicarrier Modulation is required?

PART B —
$$(5 \times 13 = 65 \text{ marks})$$

11. (a) Formulate the basic structure of an IEEE 802.11 MAC data frame and also explain the special control packets.

Or

(b) (i) Discuss about Zigbee Topologies with diagram.

(6)

(ii) Draw and explain architecture of Wireless HART.

(7)

12.	(a)	(i)	Draw the header format of IPv6 and explain.	(6)				
		(ii)	Infer about the basic structure of hierarchical mobile IPv6.	(7)				
			Or					
	(b)		ine the motivation behind dynamic source and how does dynamic routing handle routing.	nic				
13.	(a)	Discuss in detail about the overview and system architecture of CD 2000.						
			\mathbf{Or}					
	(b)		op the core network associated with TD-SCDMA wireless network lease 5.	rk				
14.	(a)		ne the WLAN adaptation function (WAF) in tight coupling ecture and explain with an appropriate diagram.	ng				
			\mathbf{Or}					
	(b)	(i)]	Illustrate the MMDS system for digital video and wireless interne	t. (8)				
		(ii) S	Summarize the functional operation of MMDS.	(5)				
15.	(a)		is OFDM? Write the significance and its advantages in using in 4 ess communication system.	ĮG				
			Or					
	(b)	Deteri detail.	mine the categories of MVNO and explain the architecture	in				
			PART C — $(1 \times 15 = 15 \text{ marks})$	å				
16.	(a)	confer data,	ne the following scenario. A Japanese and a German meet at rence on Hawaii. Both want to use their laptops for exchanging both run mobile IP for mobility support. Explain the optimization on the mobile IP networks	ng				
			Or					
	(b)		ate the effective distributed system as a management goal band wireless access.	in				