B.E. Sixth Semester (Computer Science Engineering) (C.B.S.)

Computer Networks

KNT/KW/16/7409 P. Pages: 2 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. 3. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. 4. Solve Question 7 OR Questions No. 8. 5. 6. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. 7. Assume suitable data whenever necessary. 8. Explain TCP/IP model in detail and compare it with OSI Reference model. Differentiate between computer Networks and distributed system. 3 b) Draw the different WAN topologies. c) OR Mention the different design issues of each layer of OSI model in detail. **10** 2. a) What are different types of service primitives? Explain with example. b) What is the significance of hamming distance? How is it used for error correction? **3.** a) Explain with example. b) What are the 3 kinds of frames in HDLC protocol? Explain each one in detail. OR Explain in detail Go-Back-n protocol. 4. a) 7 How does simplex stop and wait protocol works? Write the algorithms for it. b) 5. How is ring maintenance done in token rings? a) List the types of LCP packets in PPP protocol. b) Write the concept behind ALOHA Protocol. c) OR What are CSMA protocols? Explain each one in detail. a) 8 Explain difference between FDMA, TDMA, CDMA, b)

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G	7.	a)	Explain distance vector routing algorithm compare it with link state routing algorithm.	8
	7)	b)	Explain shortest path algorithm.	6
			OR	
	8.	a)	What is the optimality principle in routing? Explain with an example the hierarchical routing algorithm.	8
		b)	Explain the mobile routing basic algorithm.	6
	9.	a)	How can congestion be defined? What are the factors that can cause it?	5
		b)	Explain Leaky bucket and token bucket algorithm.	8
	6		OR	
5	10.	a)	Write a short note on Internet protocol (IP)	6
~		b)	Write a short note on ARP, RARP with suitable example.	7
	11.	a)	Discuss in brief different quality of service (QOS) parameters used in transport layer.	7
		b)	Write the details of three-way handshake protocol for establishing connection in transport layer.	6
			OR	
	12.		Write short notes on any three.	
		\bigcirc	i) ISDN system architecture.	4
		(1)	ii) ATM layers.)4
			iii) Crash Recovery.	4
			iv) Warless LANS: IEEE 802.11	5
