B.E. Electronics & Telecommunication / Communication Engineering / Electronics Engineering Eighth Semester

EC801 - Computer Networks

P. Pages: 2 Time: Three Hours				GUG/W/18/2027 Max. Marks : 80	
	Note	es: 1. 2.	Due credit will be given to neatness and adequate dimensions. Illustrate your answers wherever necessary with the help of neat sketches.		
1.	a)	Draw Iomodel.	CP/IP model and explain the function of each layer. Compare it with OSI reference	9	
	b)	-	the various LAN topologies with relative merits and demerits. Give suitable e for each.	7	
			OR		
2.	a)	Explair	the working of three levels of X.25 protocol.	8	
	b)	What is	ATM in computer networks? Explain ATM reference model in detail.	8	
3.	a)	Explair	various types of guided transmission media in detail.	8	
	b)	Explair	in detail fiber optics used as a transmission media in physical layer.	8	
			OR		
4.	a)	Explair	the frame format of HDLC in detail.	8	
	b)	Write a	technical note on services provided by data link layer.	8	
5.	a)	Explair	CSMA/CD and CSMA/CA techniques.	8	
	b)	What a	re sliding window protocol? Explain one bit sliding window protocol.	8	
			OR		
6.	a)	Explair	fast ethernet and gigabit Ethernet.	8	
	b)	-	the working of IEEE 802.3 CSMA/CD. Give the various fields of Ethernet MAC or protocol.	8	
7.	a)	Explair Protoco	in detail Address Resolution Protocol (ARP) and Reverse Address Resolution ol.	8	
	b)	What a	re the various techniques of congestion control in data gram networks.	8	
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8. Explain Wireless TCP and UDP in detail. 8 a) 8 Explain classless and class full IP addressing. b) 9. What is cryptography used for Network Security? Give difference between conventional 8 a) and public key encryption. b) What do you mean by integrity of secure network? How can it be obtained on a public 8 network. OR **10.** Write short note on any four. 16 i) Domain name system. ii) Electronic Mail. iii) Digital Signature. World Wide Web. iv) Multimedia. v)

2