B. Tech Degree VI Semester (Supplementary) Examination June 2006

CS 604 DATA COMMUNICATION

(1998 Admissions)

Time: 3 Hours		Maxin				imum Marks : 100
I.	(a) (b)	Explain any two basic types of communication networks in service. With diagrams, explain the different topological configurations of computer communication networks.				(10) (10)
				OR	•	(10)
II.	(a) (b)	Explain any four rout Write notes on :	ing procedu (i)		omputer network. (ii) ISDN	(10) (10)
***	<i>(</i> .)	T 1	1.1.4			(10)
III.	(a)	Explain any two pulse modulation techniques. Compare digital communication and analog communication.				(10)
	(b)					(5)
	(c)	What are the functions of a modem? List any two types of modem. OR				(5)
IV.	(a)	Explain the functioning of a synchronous voice grade modem.				
	(b)	Explain the features of optical fiber communication.				(6) (6)
	(c)	Define: channel capacity, band rate, band width and WAN.				(8)
V.	(a)	Explain selective repe	eat ARQ im			(5)
	(b)	Write notes on:	(i)	Single parit		
			(ii)	Code gener	ation in convolutional codir	ng
	•		(iii) [.] ^	Error recov	ery in network layer	(15)
VI.	(a)	Explain any two types of ARQ implementation.				(10)
	(b)	Write notes on:	(i)	Cyclic Red	undancy Code	• •
			(ii)	Hamming (Code	(10)
: 222						(10)
VII.	(a)	Differentiate between TDM and FDM.				
	(b)	Briefly explain:	(i)		remote multiplexers	(10)
			(ii)	Packet swit	ching concentration	(10)
VIII.	(a)	Differentiate between synchronous and statistical TDM.				
	(b)	Explain:	(i)	Inverse Mu		(10)
		——————————————————————————————————————	(ii)		or location problem	(10)
· IX.	(a)				a communication systems.	(10)
	(b)	Explain the various security measures in teleprocessing networks. OR				(10)
X.		Write notes on:	(i)	Synchrono	us data link control	
			(ii)	BSC proto		
			(iii)	Binary syn	chronous communication	
			(iv)	Line condi		(20)
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