B. Tech Degree VIII Semester (Supplementary) Examination, September 2008

EE/EB/EC/EI 803 COMPUTER NETWORKS
(1999 Scheme)

Time : 3 Hours   Maximum Marks : 100

I.	(a)	What are Protocols, Layers and Interfaces? Explain the need of layering.	(12)
	(b)	Explain the need for networking.	(8)

OR

II.	(a)	Draw the ISO/OSI Reference model and describe the functions of each layer.	(10)
	(b)	Explain various network topologies.	(10)

III.	(a)	Explain sliding window Protocol.	(10)
	(b)	Describe the various types of wired transmissions.	(10)

OR

IV.	(a)	Explain the design issues of Data Link Layer.	(12)
	(b)	Explain Synchronous and Asynchronous transmission.	(8)

V.	(a)	Differentiate Virtual Circuits and Datagram Subnets.	(6)
	(b)	Explain IEEE 802.4 Token bus.	(6)
	(c)	Explain the various Carrier Sense Multiple Access Protocols.	(8)

OR

VI.		Explain the various Routing Algorithms.	(20)

VII.	(a)	Explain the design issues of session layer.	(12)
	(b)	Describe about client server model.	(8)

OR

VIII.	(a)	Explain the flow control and buffering functions of the transport layer.	(10)
	(b)	Describe Remote Procedure Call (RPC).	(10)

IX.	(a)	What do you mean by Cryptography? Explain Substitution and Transposition Ciphers.	(10)
	(b)	Describe DES (Data Encryption Standard).	(10)

OR

X.	(a)	Comment on Distributed Systems.	(5)
	(b)	Write short notes on :	
		(i) E-mail	
		(ii) ftp	
		(iii) Virtual Terminals.	(15)

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