B. Tech Degree VIII Semester Examination, April 2009

CS/IT 803 INTERNETWORKING

(1999 Scheme)

Time: 3 Hours		Maximum	
I.	(a)	What is the role of TCP/IP in the internet?	(5)
1.	(a) (b)	Explain the structure of TCP/IP layer. Mention the function of each layer.	(5)
	(c)	What are IP gateways? What is the need of it?	(10) (5)
,	(0)	OR	(3)
II.	(a)	Describe the structure of TCP/IP software in an operating system.	(10)
	(b)	Explain the architecture of internet. Explain how interconnection through IP	()
		gateways occur.	(10)
III.		Explain the conceptual organization of ARP software.	(20)
T 7 7	(-)	OR	(10)
IV.	(a) (b)	Explain ICMP message format and the implementation of ICMP message. Why buffer management is needed? Explain the common issues in buffer management.	(10)
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V.	(a)	With a neat diagram explain a TCP finite state machine.	(10)
٠.	(b)	What is meant by Transmission Control Blocks? How are they allocated?	(10)
	(0)	OR	.(10)
VI.	(a)	Explain TCP timer management.	(10)
	(b)	Explain the functions of different protocols in transport layer.	(10)
VII.	(a)	Discuss the various issues in client software design.	(10)
٠	(b)	What do you mean by concurrent processing in client server software? OR	(10)
VIII.	(a)	Explain the major system calls used with sockets.	(10)
	(b)	Describe the communication between client and server using TCP.	(10)
IX.	(a)	Discuss the algorithms in server software design.	(10)
	(b)	Write the RPC implementation.	(10)
		OR	
Χ.	(a)	Explain the features of concurrent connection oriented servers.	(10)
	(b)	Compare iterative connectionless servers and iterative connection oriented servers.	(10)


