

## T.E. (Information Technology) (Semester – II) Examination, 2009 (2003 Course)

## COMPUTER NETWORK TECHNOLOGY

Γin	ne: 3 Hours Max. Marks:	100
	Instructions: 1) Answer 3 questions from Section I and 3 questions from Section I	II.
	2) Neat diagrams must be drawn wherever necessary.	
	3) Assume suitable data, if necessary. I susumos bus nisiqued (A	
	B) What is MIB? Explain its strult-NOITO32	
1.	A) What is fragmentation? Explain how it is supported in IPv4 and IPv6.	8
	B) Differentiate between distance vector routing and link state routing.  OR	8
2.	A) What is NAT? Where and why it is used? Explain its operation with suitable	
	example.	8
	B) Consider any class - C network with default subnet mask. How many actual hosts can be connected in that network? Divide that network into 4 equal	
	subnets. What is the new subnet mask? How many hosts can be connected in each subnet?	8
3.	A) How packet switching makes more bandwidth utilization over circuit switching?  Illustrate with example.	8
	B) Compare and contrast between RPC and UDP.  OR MTA (d shall located discount discount and a shall leave a shall be a sh	8
4.	A) Explain what is Silly Window Syndrom Problem? Explain at least 2 methods to	
	overcome it.	8
	B) List and discuss performance issues of the transport layer.	8
5.	A) What is CGI? Where and how it is used?	8
	B) Compare between FTP and TFTP.	4
	C) Explain how DNS works. OR	6
6.	A) What is a cookie? Where and how it is used?	6
	B) Differentiate between POP3 and IMAP.	6
	C) Write a note on MIME.	6
	P	P.T.O.



## SECTION - II

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7.	A) Differentiate between SIP and H.323 protocol.	8
	B) Explain any two policy methods used in multimedia communication.	8
	re: 3 Hours Nax. Max. Marks:	
	A) What is the need of RTCP bandwidth scaling?	8
	B) What is RSVP? Why it is required?	8
9.	A) Explain and compare DHCP and BOOTP.	8
	B) What is MIB? Explain its structure.	8
	A) What is fragmentation? Explain how it is supported in IP AOnd IPv6.	
10.	A) Discuss the role of SMI in SNMP. Give the data types supported by SMI.	8
	B) How SNMP messages are used to monitor and control the network elements?	8
11.	A) Describe the architecture of broadband ISDN.	8
	B) Write short notes on a) SMDS b) Frame relay. We want at 1 and W standard to the short notes on a) SMDS b) Frame relay.	10
	A) How packet switching makes more bandwidth utilization over circuit switching?	
12.	A) Explain the WLAN architecture.	8
	B) Write short notes on a) Bluetooth protocol stack b) ATM.	10
	A) Explain what is Silly Window Syndrem Problem? Explain atleast 2 methods to	
8		
	B) List and discuss performance issues of the transport layer.	
	B) Compare between FTP and TFTP.	
9	C) Explain how DNS works. OR	
	A) What is a cookie? Where and how it is used?	

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