

T.E. (Information Technology) (Semester – I) Examination, 2010 COMPUTER NETWORK TECHNOLOGY (New) (2008 Course)

Time:	3 Hours Marks : 10)(
In	structions: 1) Answers to the two Sections should be written in separate book 2) Neat diagrams must be drawn wherever necessary. 3) Black figures to the right indicate full marks. 4) Your answers will be valued as a whole. 5) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed. 6) Assume suitable data, if necessary.	S
	SECTION – I	
1. a)	Differentiate among circuit switching, packet switching and message switching with one example.	8
b)	Explain Hub, Switch and Bridge with the help of suitable block diagram. OR	8
100	Discuss the design issues of the network layer. What are the different addresses used in an Internet using TCP/IP protocols?	8
	Explain each in brief with example.	8
	Define Subnetting.	2
b)	For a given class C network 195.188.65.0 design the equal subnets in such a way that each subnet has at least 50 nodes.	8
c)	Explain connection oriented and connectionless services.	8

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4.	a)	Define Supernetting.	2
	b)	Explain flow control and congestion control in connection oriented service.	8
	c)	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 ? (Give all details).	8
5.	a)	Explain three way hand shake algorithm for TCP connection establishment.	8
	b)	State and explain similarities and differences between data link layer and transport layer. OR	8
6.	a)	What is silly window syndrome? How to overcome it?	8
	b)	Explain dynamic buffer allocation at transport layer with suitable example.	8
		SECTION – II	
7.	W	rite any 3 short notes on:	18
	1)	MIME 1111 I make the control of the	
	2)	Cookies Signification of the Cookies	
	3)	RSV P	
	4)	Dynamic and Active pages.	
		OR	
8.	a)	What is FTP? Where and when it is used? Why does it require 02 ports?	
		Explain at least 05 commands used in FTP.	10
	b)	Explain MIB along with its structure.	8



9.	a)	What is the need of RTCP protocol along with RTP protocol in multimedia communication?	8
	b)	Explain H. 323 architectural model and its protocol stack. OR	8
10.	a)	What is meant by interactivity of real time interactive audio/video?	8
	b)	Compare between SIP and H. 323.	8
11.	a)	What is cashing? Who should do the cashing? How long should pages be cashed?	8
	b)	Explain email architecture and its services. OR	8
12.	a)	Explain Bluetooth architecture with diagram.	8
	b)	Discuss various layers used in ATM architecture.	8

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