

Bachelor in Information Technology (BIT)

Term-End Examination

December, 2006

CSI-13: NETWORKING

Tin	me: 3 Hours Maximum Marks: 75	
<u> </u>	Note: There are two sections in this paper. All questions from Section A are contained Answer any three questions from Section B. Multiple choice question mark each.	ompulsory. s carry one
	SECTION A	
1.	Encryption is handled by the	1
	(a) Transport layer	
	(b) Session layer	
	(c) Presentation	
	(d) Network layer	
2.	Ethernet address is of bit size.	
	(a) 32	
	(b) 48	
	(c) 64	
	(d) 16	
3.	If an IP address starts with a bit sequence of "1110", it is a class ad	ldress. 1
	(a) A	
	(b) B	
	(c) C (d) D	
4.	ATM is a technology.	1
	(a) asynchronous TDM	
	(b) statistical TDM	
	(c) synchronous TDM	
	(d) asynchronous SDM	



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5.	A Radio broadcast is an example of transmission.	!
	(a) Full duplex	
	(b) Half duplex	
	(c) Simplex	
	(d) Triplex	
6.	To implement decentralized access control, ethernet uses the approach of	1
	(a) loopback	
	(b) LIFO	
	(c) CSMA/CD	
	(d) FIFO	
7.	Which of the following layers in ATM network is used for protocol transformation?	1
	(a) Data link	
	(b) ATM	
	(c) AAL	
	(d) Physical	
8.	Disk strip set without is a cost efficient way to increase disk	
	performance.	1
	(a) Key	
	(b) Volume name	
	(c) Mirror	
	(d) Parity	
9.	Which of the following functions is not a user right tool function?	1
	(a) Access computer from network	
	(b) Add computer to the domain	
	(c) Mirroring	
	(d) Log on locally to this computer	
10.	utility creates an emergency repair disk with the updated disk information. 1	
	(a) WINDISK.EXE	
	(b) UDISK.EXE	
	(c) RDISK.EXE	
	(d) DISKUPDATE.EXE	





11. Assume you are designing a network for a Gargent manufacturing and distribution company. The company has 3 departments at different locations in India like Administration, Manufacturing and Distribution departments at New Delhi, Gujarat and Mumbai respectively. Further, distribution department has 4 sub distribution departments in Mumbai at different locations.

Each department has 25 computers, 2 printers and one FAX machine, and each sub-department has 10 computers and 2 printers while Administration department is working as the central office which maintains all database, transactions and main server.

The main server is connected with servers of other departments and sub-departments. Give answer of the following, based on the network defined above:

(i)	Draw and explain	the best	suited	physical	and	logical	topology	for	the	network
	specification.									

(ii) Justify the need of each hardware device you may use in the network at different locations.

(iii) Which cable is best suited for this company? Compare merits and demerits of all the available cables, to justify your answer.

(iv) Which operating system is best for this company? Justify your answer.

(v) Explain the best hardwares and softwares you should use in the network to implement the security.

SECTION B

Answer any three questions from this section.

12. (a) Explain any two functionalities of each of the following:

3×2=6

5

4

4

5

4

3

- (i) Presentation layer
- (ii) Data link layer
- (iii) Internet layer of TCP/IP
- (b) Explain, how the microwave communication works. In what ways is it different from the satellite communication? Give at least three differences.
- (c) In OSI model, how does the transport layer ensure the complete reliability of the message and the proper ordering of the message?

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13.	writ	three differences between each of the following pairs: $3\times5=15$	
	(a)	Token ring and Token bus	
	(b)	Message switching and Packet switching	
	(c)	Connection oriented and Connection-less services	
	(d)	10 Base 2 and 100 Base T cable	
	(e)	Gateway and Router	
14.	(a)	What is the importance of mirroring? How do we mirror a disk partition on server? Can we establish the mirror of boot partition? If yes, how? If no, why not?	8
	(b)	How does NTFS file system provide the 'recoverability' and 'compression' of files? Explain your answer with the help of suitable examples for each.	7
15.	(a)	What is disk stripping? What are the differences between strip set with parity and without parity? Explain, how you can create and remove strip set with parity and without parity.	8
	(b)	Explain the different check points for evaluating the Administrator Account and Administrators Group.	7
16.	(a)	What are the different types of activities that could be addressed by the network administrator in the security policy? Also, explain why these activities are included in the security policy.	10
	(b)	How are the configuration of a local printer and a network printer different? Explain with suitable diagram.	5