

## Bachelor in Information Technology (BIT)

## **Term-End Examination**

## December, 2007

**CSI-13: NETWORKING** 

No	te :	There are two sections in this paper. All questions from Section A are compulsory. Answer any three questions from Section B. Multiple choice questions carry one mark each.	
		SECTION A	
1.	Wh	ich of the following is not a standard user group of Windows NT?	
	(a)	Power user	
	(b)	Replicator	
	(c)	그리아 하다 하다 보통 중에 있는 사람들이 되었다. 그 그 그 그 그 사람들은 사람들이 살아 있다면 모든 것이다.	
		Backup operators	
	(d)	Primary operators	
2.	Αυ	niversal thin server is an appliance that network-enables any device with a communications port.	
	(a)	parallel	•
	(b)	serial	
	(c)	simplex	
	(d)	half-duplex	
3.	Rout	ter operates atlayer under OSI model.	
	(a)	Transport Transport	1
	(b)		
	(c)	Neither	
	(d)	Both	
<b>.</b>	IEEI	E 802·2 is protocol.	1
	(a)	Token Bus	
	(b)	Token Ring	
		LLC	
	(d)	DQDB	



5.	is the IP address in the B class.
	(a) 125.123.123.2
	(b) 192.122.31.52
	(c) 191.023.21.54
	(d) 10.14.12.34
6.	Which layer is called as "True end to end" layer?
	(a) Physical
	(b) Network
	(c) Application
	(d) Transport
7.	Which of the following standards is for MAN?
	(a) IEEE 802.2
	(b) IEEE 802.5
	(c) IEEE 802.6
	(d) FDDI
8.	Which of the following permissions may the owner of directory <b>not</b> grant to the users?
	(a) List
	(b) No Access
	(c) Add & Read
	(d) Encrypt
9.	HDLC is a protocol.
	(a) Bit-oriented
	(b) Flow control
	(c) IEEE 802.6
	(d) Character-oriented



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- 10. The following medium does not use metallic conductor for transmission:
  - (a) Twisted pair
  - (b) Coaxial cable
  - (c) Optical fiber
  - (d) None of the above
- 11. Assume you are designing a network for a university, which has 25 Lecture rooms, Administration department, 20 Teachers rooms and one management department. Each Lecture room and Teacher room is having a computer, while administration and management department has 20 computers, 10 printers and 2 FAX machines each. Administration is working as the central office which maintains all databases and main server. The main server is connected to all computers and servers of other departments.

Give answers of the following, based on the network defined above :

- 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 that can be used in the network to implement the security.

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## SECTION B

Answer any three questions from this section.

12.	(a)	Explain any two functionalities of each of the following:	6
		(i) Physical layer	
		(ii) Data link layer (iii) Transport layer	
	(b)	What is Token Ring? How does it work? In what way is it different from Ethernet? Explain the fields in a Token Ring frame header.	9
13.	Wri	te three differences between each of the following pairs :	15
	(a)	IEEE 802.6 and IEEE 802.4	
	(b)	Iterative and Recursive name resolution	
	(c)	Coaxial cable and Fiber optics	
	(d)	Centralized computing and Distributed computing	
	(e)	Internet and Intranet	
14.	(a)	How does Windows NT manage file system? Explain different systems supported by Windows NT. Write two advantages and two disadvantages of each model.	11
	(b)	Explain the 'flow control' and 'error control' mechanism in X.25 protocol.	4
15.	(a)	What are print servers? Why do we need them? What do you understand by print queue management?	9
	(b)	Explain the "Resource Password Security Model".	6