

# **Bachelor in Information Technology (BIT)**

#### **Term-End Examination**

### December, 2006

**CSI-01: COMPUTER PLATFORMS** 

Time: 3 Hours Maximum Marks: 75

Note:

There are two sections in this paper. Section A consists of objective type questions and short answer type questions. Section A is of 30 marks. All questions in Section A are compulsory. Attempt any three questions from Section B. Section B carries 45 marks.

#### SECTION A

- 1. There are 10 objective type questions in this question. Each objective type question has four choices. Select the best choice as your answer. If none of the given choices is valid, then mark 0 as your answer. Each objective type question carries 1 mark. 10×1=10
  - (a) Which of the following media cannot be used for star or bus topology?
    - (i) Twisted pair cable
    - (ii) Co-axial cable
    - (iii) Optical fibre
    - (iv) None of the above
    - (b) Which of the following layers is concerned with the medium and circuits to send electrical signals?
      - (i) Physical layer
      - (ii) Data-link layer
      - (iii) Session layer
      - (iv) Transmission layer
    - (c) Which of the following devices is **not** used in data communication?
      - (i) Statistical multiplexer
      - (ii) Microprocessor
      - (iii) Modem
      - (iv) Front-end processor



- (d) When a CPU is interrupted, it
  - (i) stops execution
  - (ii) acknowledges interrupt and continues
  - (iii) acknowledges interrupt and branches to a subroutine
  - (iv) waits till the interrupt is removed
- (e) The three key elements for a graphics workstation include the host processor, display controller and
  - (i) plotter
  - (ii) keyboard
  - (iii) CRT
  - (iv) digitizer
- (f) Cryptography is used in
  - (i) scheduling of jobs
  - (ii) file management
  - (iii) data validation
  - (iv) data protection
- (g) The network topology that supports bidirectional links between each possible node is
  - (i) ring
  - (ii) star
  - (iii) tree
  - (iv) mesh
- (h) Spatial locality refers to the problem that once a location is referenced
  - (i) it will not be referenced again
  - (ii) it will be referenced again
  - (iii) a nearby location is referenced soon
  - (iv) a distant location is referenced soon
- (i) Overlay is
  - (i) a part of an operating system
  - (ii) a single memory location
  - (iii) a single contiguous memory that was used in olden days for running large programs by swapping
  - (iv) overloading the system with many user files



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4.	(a)	you are sending a message from a computer?	4
	(b)	data transfer?	4
	(c)	Give the block diagram of a raster-scan display processing system. Explain how images are stored in a refresh buffer.	4
	( <b>d</b> )	COLUMN TO THE PROPERTY OF VIEW OF	3
		(i) programmer	
		(ii) operation user	
		(iii) end user	
5.	(a)	Distinguish between the following:	<b>6</b> .
		(i) System calls and System commands	
		(ii) RAM and ROM	
		(iii) Bridge and Router	
	(b)	What are the different types of services provided by an Internet ? Explain any four.	4
	(c)	What are the security mechanisms for a computer connected on the network? Explain any one of those.	5
6.	(a)	Explain the function of	5
		(i) Optical Character Reader	
		(ii) Magnetic Ink Character Reader	
	(b)	What is the need of upgrading a computer system? Explain any four computer system upgrades.	5
	(c)	What is an instruction? How is it executed in Von Neumann machine? Explain with the help of an example.	<b>5</b>