NED UNIVERSITY OF ENGINEERING & TECHNOLOGY, KARACHI FIRST YEAR (COMPUTER SCIENCE AND INFORMATION TECHNOLOGY) ANNUAL EXAMINATION 2008 BATCH 2007-08

Time: 3 Hours

Dated: 29-10-2008

Max. Marks: 75/80

FUNDAMENTALS OF INFORMATION TECHNOLOGY (CT-158)

	Instructions: 1. Attempt any <u>FIVE</u> questions.	
Q. 1)	 (a) Describe the processor and memory (b) Describe primary and secondary storage devices (c) Discuss D-RAM and S-RAM (d) Describe the different parts of a CPU (e) Describe the standard keyboard layout 	(4) (3) (2) (3) (3)
Q. 2)	 (a) What is Flash memory? (b) Define L1 Cache & L2 Cache (c) Describe variants of the mouse (d) Why do computers need ROM? (e) What is a network topology? Describe the different network topologie giving advantages and disadvantages of each. 	(2) (3) (3) (3) (3) (5)
Q. 3)	 (a) Briefly describe the two main buses in a computer (b) What are the benefits of networking? (c) Briefly describe different types of printers (d) Describe a client server and peer to peer network (e) Describe shielded twisted pair cable, unshielded twisted pair cable, co cable and fiber optic cable. 	(3) (3) (3) (2) axial (4)
Q. 4)	(a) Describe what a bit, byte and ASCII is(b) Describe how a CD-ROM reads data from a compact disk(c) Describe the machine cycle and different types of memory	(5) (5) (5)
Q. 5)	 (a) Describe CRT monitors and Flat Panel Display monitors. (b) Convert the following: (i) 235 Decimal to Binary (ii) (10111)₂ Binary to Decimal (iii) 121.361 Decimal Point to Binary (iv) (1010.0011)₂ Binary Point to Decimal (v) 001101100111 Binary code decimal to Decimal 	(8) (7)

Q. 6)	(a) What is a Graphical User Interface (GUI)?	(2)
80	(b) Discuss menus, Dialog Boxes and Command-Line Interfaces.	(6)
	(c) Discuss multitasking. How does the operating system manage har	
		(7)
Q. 7)	Discuss the following:	w-
	Unix, DOS, Macintosh operating system, Windows 3.x, OS/2 WARP	
	Windows NT, Windows NT Workstation, Windows NT Server, Windows NT, Windows NT Workstation, Windows NT Server, Windows NT Server	
	and 98, Linux, Windows 2000	
		(15)
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Q. 8)	(a) Discuss Magnetic Storage Devices	(2)
	(b) Discuss Optical and Audiovisual Input devices	(2)
	(c) Discuss Wireless communications and Wide Area Networks.	(4)
	(d) What are the different components of a computer system?	(4)
	(e) Convert the following Decimal Point into Binary: 121.361	(3)
	Y	