No. of Printed Pages: 4

**BIEE-032** 

## DIPLOMA IN ELECTRICAL ENGINEERING (DELVI)/ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRICAL ENGINEERING (ACELVI)

Term-End Examination
December, 2014

BIEE-032 : PRINCIPLES OF COMPUTER ARCHITECTURE

Time: 2 hours

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Maximum Marks: 70

Note: Question no. 1 is compulsory. Attempt any four questions from questions no. 2 to 8.

1. Choose the correct option.

 $7 \times 2 = 14$ 

- (a) Where is the boot sequence changed?
  - (i) BOOT CFG.EXE
  - (ii) CMOS Setup
  - (iii) MSD
  - (iv) ESD
- (b) Which of the following are impact printers:
  - (i) Dot Matrix Printers
  - (ii) Deskjet Printers
  - (iii) Inkjet Printers
  - (iv) Laser Printers

P.T.O.

(c)	Whi	ch of the following is not a common PC
	Bus	expansion:
	(i)	ISA
	(ii)	PCI
	(iii)	OSB
	(iv)	PCI-Express
(d)	_	stem that keeps losing the time and date d be most likely caused by
	(i)	System battery going dead
	(ii)	Virus effect
	(iii)	CD drive failure
	(iv)	Bad sectors
(e)		t component is installed in an ESD p to prevent shock?
	(i)	Resistor
	(ii)	Capacitor
	(iii)	Wire
	(iv)	SIMM
(f)	Whe	re are ROM BIOS routines stored ?
(-/	(i)	Hard disk
	\ <del>-</del> /	

(ii) Floppy disk

(iv) Hard disk controller

(iii) CMOS

	(g)	pins?		
		(i) 10		
		(ii) 34		
		(iii) 40		
		(iv) 50		
2.		w the layout of the North and South Bridge. Dlain the various functions supported by each dge.	14	
3.	(a)	Differentiate between Low Level Formatting and High Level Formatting.	7	
	(b)	Describe FM, MFM and Data Encoding schemes.	7	
4.	(a)	Differentiate between CRT display and LCD display.	7	
	(b)	Differentiate between Non-interlaced and Interlaced monitor.	7	
5.	Log	aw the block diagram for Printer Controller gic of Dot Matrix Printer. Explain the various blems that occurred in the printers.	14	
6.		aw the block diagram of SMPS and explain working of each unit.	14	
7.	mai	scribe the various steps taken for preventive intenance of peripherals of PC. Write the		
	_	eral precautions to be taken during the intenance of a PC.	14	

8. Write short notes on any four of the following:

$$4 \times 3 \frac{1}{2} = 14$$

- (a) BIOS
- (b) Video Bandwidth
- (c) PATA
- (d) Flat Bed Scanner
- (e) Partitioning of Hard disk
- (f) RLL Encoding technique