

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

Term-End Examination

June, 2013

**BIEE-032 : PRINCIPLES OF COMPUTER
ARCHITECTURE**

Time : 2 Hours

Maximum Marks : 70

Note : Attempt five questions and question number 1 is compulsory.

Choose the correct answer :

1. (a) The expansion for RAM is : 7x2=14
- (i) Real Access Memory
 - (ii) Random Access Memory
 - (iii) Random Array Memory
 - (iv) Real and Memory
- (b) SCSI is :
- (i) a input device
 - (ii) a software
 - (iii) an interface
 - (iv) a host adapter

- (c) IDE can support maximum of :
 - (i) 2 devices
 - (ii) 1 device
 - (iii) 4 devices
 - (iv) 8 devices
 - (d) The AT extended keyboard has :
 - (i) 84 keys
 - (ii) 83 keys
 - (iii) 101 keys
 - (iv) 104 keys
 - (e) SATA expansion is :
 - (i) serial AT attachment
 - (ii) short access terminal aperture
 - (iii) serial access terminal access
 - (iv) short term access terminal
 - (f) Hard disk is the :
 - (i) Printing device
 - (ii) Memory device
 - (iii) Terminal device
 - (iv) Connecting device
 - (g) BIOS is :
 - (i) Hardware
 - (ii) Software
 - (iii) Firmware
 - (iv) Integrated chip
2. (a) Describe the Interfacing techniques employed for storage devices. **7x2=14**
- (b) What is Internal and External cache memory ? State the advantages of using cache memory.

3. (a) What are the characteristics of CRT monitor ? 7x2=14
(b) Draw a block diagram of video accelerator card.
4. (a) Draw the block diagram of scanner and explain its operation. 7x2=14
(b) What is voltage regulator in context of power supply ? Explain the function of voltage regulator circuit.
5. (a) What are preventive maintenance for PC ?
(b) What are the protection offered for RFI and Electrostatic discharge ? 7x2=14
6. (a) Describe the signal and pin diagram of AT and ATX connectors. 7x2=14
(b) What are the trouble shooting tools used for PC maintenance ?
7. (a) List out the power problem found in power supplies. 7x2=14
(b) What do you mean by MODEM ?
Differentiate between internal and external modem.
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