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**DIPLOMA IN ELECTRICAL ENGINEERING
(DELVI)**

Term-End Examination

June, 2011

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

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions and question number 1 is compulsory which is multiple choice questions.

1. (a) The CPU used in IBM PC is : 7x2=14
(i) 8085 (ii) 6800
(iii) 8086 (iv) 8088
- (b) IDE card is used for interfacing :
(i) Floppy drive
(ii) Hard disk drive
(iii) Printer
(iv) All of the above
- (c) BIOS is stored in :
(i) RAM (ii) Floppy disk
(iii) Hard disk (iv) ROM
- (d) With 20 address lines, 8088 can address memory locations of :
(i) 64 KB (ii) 640 KB
(iii) 1024 KB (iv) 640 MB

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1
2
3
4

- (e) Mouse is connected to :
 - (i) Serial port
 - (ii) Video adapter card
 - (iii) Parallel port
 - (iv) Key board connector

- (f) With a color depth of 16 bits, the number of colors than can be displayed are :
 - (i) 8 colors (ii) 16 colors
 - (iii) 64 colors (iv) 256 colors

- (g) One of the following sequence is wrong. Identify it .
 - (i) Application program - windows - BIOS -H/W
 - (ii) DOS - BIOS- Hardware
 - (iii) Windows-DOS-Hardware
 - (iv) Application program -DOS-BIOS - Hardware

- 2. (a) Why we use cache memory ? What are the different types of cache memory ? Explain. 7
- (b) What do you mean by BIOS ? Explain the BIOS organisation. 7

- 3. (a) Explain the working of Hard disk drive. 7
- (b) Describe the recording and reading principle of DVD. 7

4. (a) Explain the working principle of LCD monitor with suitable diagram. 7
- (b) Explain the following characteristics of monitor. 7
- (i) Resolution
 - (ii) Refresh Rate
 - (iii) Response time
5. (a) Explain the working principle of different mouse in brief. 7
- (b) What is the principle of operation of Laser printer ? Explain. 7
6. (a) Draw the block diagram of UPS and how it works ? 7
- (b) Draw the pin diagram of AT power connector and ATX power connector. 7
7. (a) Explain the USB and firewire features. 7
- (b) Differentiate between Primary and Secondary storage. 7
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