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BIEE-032

00371

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

Term-End Examination

December, 2013

BIEE-032 : PRINCIPLES OF COMPUTER ARCHITECTURE

Time : 2 Hours *Maximum Marks : 70*

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

1. (a) The expansion of DOS is : **7x2=14**

(i) Directory Oriented System.

(ii) Disk Operating System.

(iii) Direct - On line Software.

(iv) Dual - Operation Solution.

(b) The SMPS in an computer system gives the following output :

(i) +12V

(ii) +5V

(iii) -5V

(iv) All of the above.

(c) BIOS is :

(i) Hardware

(ii) Software

(iii) Firmware

(iv) Integrated chip

(d) IDE can support maximum of :

(i) 2 devices

(ii) 1 device

(iii) 4 devices

(iv) 8 devices

(e) The AT extended keyboard has :

(i) 84 keys

(ii) 83 keys

(iii) 101 keys

(iv) 104 keys

(f) The data transfer rate of a single speed CD Drive is :

(i) 650 MB

(ii) 150 kbps

(iii) 74 mm

(iv) 200 rpm

(g) SCSI is :

(i) an input device

(ii) a software

(iii) an interface

(iv) a host adoapter

2. (a) Draw the Rs. 232 pinout specification. **7x2=14**

(b) Briefly explain the working principle of CRT with neat sketch.

3. (a) Explain the working principle of DOT-Matrix Printer ? **7x2=14**

(b) What do you mean by MODEM? Differentiate between External and Internal Modem.

4. (a) Draw the Block diagram of the Mother Board and also explain its components. **7x2=14**

(b) Explain the following power supply problems.

(i) Black out

(ii) Brownout

(iii) Surges

(iv) Spikes

5. (a) Draw the block diagram of SMPS and explain its working. **7x2=14**

(b) Describe the reading and recording principle of CD-ROM.

6. (a) What do you mean by memory organisation? Differentiate between extended and expanded memory. **7x2=14**

(b) Briefly explain the different characteristics of CRT monitor.

7. (a) Draw the block diagram of a scanner and explain its operation. **7x2=14**

(b) Explain different types of Protection devices used in Power supplies.