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

Term-End Examination

December, 2012

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

Time : 2 Hours

Maximum Marks : 70

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

1. (a) 64k is equal to which unit of the following ? 2
(i) 6400 (ii) 64000
(iii) 65536 (iv) 66536
- (b) A charged coupled device has 2
(i) Low cast per bit
(ii) High cast per bit
(iii) Low density
(iv) None of above
- (c) A Floppy disk is a-- 2
(i) Thin magnetic oxide disc coated with plastic.
(ii) Thin plastic disk coated with magnetic oxide.

- (iii) Aluminium disk coated with magnetic oxide of iron.
 - (iv) All of the above
 - (d) Choose the company from the following that does not use Motorola chips in their computers. 2
 - (i) APPLE (ii) Hewlett-Packard
 - (iii) Atari (iv) Compaq
 - (e) Micro processor can be used to make 2
 - (i) Computers (ii) Digital System
 - (iii) Calculators (iv) All of above
 - (f) BIOS is stored in 2
 - (i) RAM (ii) Floppy disk
 - (iii) Hard disk (iv) ROM
 - (g) MCA means 2
 - (i) Main Computer Architecture
 - (ii) Micro Channel Architecture
 - (iii) Micro Chip Architecture
 - (iv) Micro Computers Architecture
2. (a) Draw and briefly explain the pin diagram of AT Power connector and ATX power connector 7
- (b) What do you mean by the memory in computers? Differentiate between Primary and Secondary storage. 7

3. (a) Draw the block diagram of SMPS and explain how it works ? 7
(b) Explain the working principle of LCD monitor with a suitable example. 7
4. Explain the following : 14
(a) SDRAM
(b) DDR
(c) DDR2
(d) DDR3
5. Explain in detail with neat diagram the memory connections of RAM and ROM. 14
6. What is the processor Bus ? Write comparison between PCI and PCI Express 14
7. What is the Hard disk ? Discuss it's construction and working in detail with the help of a suitable diagram. 14
8. Write short notes on **any four** of the following : 3.5x4=14
(a) DVD
(b) Mouse
(c) UPS
(d) Cluster
(e) MBR
(f) SATA