00369

DIPLOMA IN COMPUTER SCIENCE AND TECHNOLOGY (DCSVI)/ADVANCED LEVEL CERTIFICATE COURSE IN CSE (ACCSVI)

Term-End Examination

June, 2012

BICS-028 : PC ASSEMBLY AND MAINTENANCE

Time : 2 hours *Maximum Marks : 70*

Note : *Attempt* ***any five*** *questions and question No.* ***1*** *is* ***compulsory*** *which is multiple choice question.*

1. (a) Tera is 2 to the power of : **2**

(i) 32 (ii) 30

(iii) 40 (iv) 25

(b) The minimum no. of bits required to represent a character from ASCII code set is : **2**

(i) 2 (ii) 5

(iii) 7 (iv) 8

(c) Which of the following is an example of out put device ? **2**

(i) Mouse (ii) Keyboard

(iii) MICR (iv) Speaker

(d) The cast of storing a bit is minimum in : **2**

(i) Cache (ii) Register

(iii) RAM (iv) Magnetic tape

(e) A chip having 150 gates will be classified as : 2

(i) SSI (ii) MSI

(iii) LSI (iv) VLSI

(f) Bi-polar devices are desirable in the fabrication of which of the following component. 2

(i) Main Memory

(ii) Cache Memory

(iii) Micro Program Memory

(iv) All of above

(g) Which of the following units can be used to measure the speed of a computer ? 2

(i) SYPS (ii) MIPS

(iii) BAUD (iv) FLOPS

2. (a) Differentiate between static and dynamic random access memory with suitable diagram. 7

(b) What is Bus ? Discuss various types of buses with their features. 7

3. What do you understand by level of memory hierarchy ? Discuss various design considerations of memory hierarchy. 14

4. What is the optical storage ? Also discuss CD-R, CD-RW, CD ROM in detail. 14

5. Describe various modes of data transfer. Also discuss how DMA mode is better than other modes. **14**

6. (a) Discuss construction and working of a magnetic disk. Also discuss various components of disk access time. **7**

   (b) Draw the SMPS block diagram and explain it's function in detail. **7**

7. (a) What do you mean by RAID technology ? Explain with suitable diagram. **7**

   (b) What do you mean by data transfer rate, Access time, and constant linear velocity ? **7**

8. Write short notes on ***any four*** : **4x3½=14**

   (a) ISA

   (b) Cache Memory

   (c) HMA

   (d) IDE

   (e) Mouse

   (f) Holographic storage