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

00072

Term-End Examination

December, 2011

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) The CPU and memory are located on the :

    7x2=14

    (i) Expension board

    (ii) Mother board

    (iii) Storage device

    (iv) Output device

   (b) The PC and the Apple Macintosh are examples of two different :

    (i) Platforms   (ii) Application

    (iii) Memory   (iv) Processor

   (c) Servers are computers that provide resources to other computers connected to a _____ .

    (i) Network   (ii) Mainframe

    (iii) Super computer (iv) Client

(d) _____ are specially designed computers that perform complex calculations extremely rapidly.

    (i) Servers   (ii) Super computer

    (iii) Laptop   (iv) Mainframe

(e) DSL is an example of a _____ connection.

    (i) Network   (ii) Wireless

    (iii) Slow   (iv) Broadband

(f) The binary language consists of _____ digits.

    (i) 8   (ii) 2

    (iii) 1   (iv) 1024

(g) Which is not internet working device.

    (i) Router   (ii) Bridge

    (iii) Switches   (iv) Printer

2. (a) What are the different hardware component used in PC ?   7x2=14

   (b) Explain the Switched Mode Power Supply (SMPS) function and operation with suitable diagrams.

3. (a) What do you mean by formatting of hard disk and working of hard disk ?   7x2=14

   (b) Explain the data transfer operation using DMA with suitable diagrams.

4. (a) What is the use of holographic storage device ? Explain the working principle of holographic storage. 7x2=14

(b) Explain different DVD formats and CD book formats.

5. (a) What do you mean by logical memory addressing ? Differentiate extended and expanded memory. 7x2=14

(b) What do you mean by cache memory ? Write types of cache memory with diagrams.

6. (a) Explain the different types of bus architecture used in computer system. 7x2=14

(b) Discuss the various features of different types of RAM technologies used in computer system.

7. (a) What is computer system ? Explain the block diagram of computer in details. 7x2=14

(b) What are the various input and output devices for the computer with diagrams ?