DIPLOMA – VIEP – COMPUTER SCIENCE AND
ENGINEERING (DCSVI) / ADVANCED LEVEL
CERTIFICATE COURSE IN COMPUTER
SCIENCE AND ENGINEERING (ACCSVI)

Term-End Examination

ОО887   December, 2017

BICS-028 : PC ASSEMBLY AND MAINTENANCE

Time : 2 hours   *Maximum Marks : 70*

Note : *Attempt* **five** *questions in all. Question number 1 is* **compulsory***. All questions carry equal marks.*

1. Choose the correct answer from the given options for each question.   *7×2=14*

    (a) Which of the following is **not** a type of memory ?
         (i)   RAM
         (ii) Cache
         (iii) Check
         (iv) Register

    (b) RAID stands for
         (i)   Redundant Array of Inexpensive Drives
         (ii) Random Array of Inexpensive Drives
         (iii) Redundant Array of Inexpensive Disks
         (iv) Redundant Array of Interdependent Drives

(c) Which of the following is *not* an HDD interface ?

(i) IDE

(ii) EIDE

(iii) ATA

(iv) ZATA

(d) Which of the following is an optical storage device ?

(i) Compact Disk

(ii) Hard Disk Drive

(iii) Floppy

(iv) Flash Drive

(e) Which of the following units is used to measure the speed of processors ?

(i) Megabits per second

(ii) Gigahertz

(iii) Gigabytes

(iv) None of these

(f) Select the odd-one-out from the following :

(i) Joystick

(ii) Mousepad

(iii) Finger-print Scanner

(iv) Plotter

(g) USB is a type of

(i) Memory Device

(ii) Bus Interface

(iii) Processor

(iv) CD-ROM

2. (a) What is an SMPS ? Explain its functions and operations using suitable examples. **7**

(b) Explain the various types of memories found in a computer system. **7**

3. (a) What is Direct Memory Access (DMA) ? Explain the concept of Ultra DMA in detail. **10**

(b) Explain the various WORM devices using suitable examples. **4**

4. (a) Differentiate between constant linear velocity and constant angular velocity. **7**

(b) Explain the concept of holographic storage in detail, using suitable example. **7**

5. (a) Differentiate between extended memory and expanded memory. **7**

(b) Explain the following terms : $2 \times 3\frac{1}{2} = 7$

(i) Disk Formatting

(ii) Disk Partitioning

6. (a) Explain the difference between logical addressing and physical addressing. 7

   (b) Discuss the FLAT memory model in detail. 7

7. (a) Explain the various mouse interface connectors in detail. 7

   (b) Differentiate between parallel and serial communication ports. 7

8. Write short notes on any *four* of the following : $4 \times 3\frac{1}{2} = 14$

   (a) PC Add-on Cards

   (b) Cylinders and Sectors

   (c) CHS Addressing

   (d) ECC Static RAM

   (e) PCMCIA

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