

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

Term-End Examination

June, 2017

00494

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** found on the Motherboard ?
- (i) RAM
 - (ii) CPU
 - (iii) COMM Ports
 - (iv) HDD
- (b) Which of the following is **not** a storage device ?
- (i) HDD
 - (ii) CD
 - (iii) Flash Drive
 - (iv) Joystick

- (c) What does IDE stand for ?
- (i) Integral Drive Environment
 - (ii) Integrated Drive Electronics
 - (iii) Internet Drive Enable
 - (iv) Instant Drive Electronics
- (d) DVD stands for
- (i) Digital Video Disk
 - (ii) Digital Video Drive
 - (iii) Digital Versatile Disk
 - (iv) Double Volume Drive
- (e) Which feature allows certain hardware to access RAM independently of the CPU ?
- (i) UMA
 - (ii) DMA
 - (iii) IMA
 - (iv) ZMA
- (f) Which of the following is **not** a unit of measuring storage capacity ?
- (i) Petabytes
 - (ii) Teraflops
 - (iii) Terabytes
 - (iv) Gigabytes
- (g) Select the odd one out from the following :
- (i) Plotter
 - (ii) Mouse
 - (iii) Projector
 - (iv) Speaker

2. (a) Explain the need of a motherboard in a computer system. Also explain the various ports available on a motherboard. 10
- (b) Discuss in brief, the various connectors which are used with a computer system. 4
3. (a) Differentiate between cylinders and sectors using suitable examples. 7
- (b) Explain the concept of logical block addressing in detail. 7
4. (a) Explain the various hard disk data transfer modes in detail. 7
- (b) What is a Compact Disk ? Explain the CD technology in detail. 7
5. (a) Differentiate between CD-R, CD-RW and CD-ROM using suitable examples. 7
- (b) Discuss the various magneto-optical devices with the help of suitable examples. 7
6. (a) What is the role of RAM in a computer system ? Differentiate between Static RAM and Dynamic RAM. 7
- (b) Discuss some of the advanced memory technologies in detail. 7

7. (a) Explain the following terms in detail : 9
- (i) ISA
 - (ii) PCI
 - (iii) AGP
- (b) Explain the various communication ports using suitable examples. 5
8. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) PC Hardware Components
 - (b) Floppy Disk Controller
 - (c) Drive Specifications
 - (d) Cache Memory
 - (e) EIDE HDD Interface
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