

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

Term-End Examination

00746

June, 2016

BICS-028 : PC ASSEMBLY AND MAINTENANCE

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions. Question number 1 is compulsory which has multiple choice questions. All questions carry equal marks.

1. Choose the correct answer from the following four alternatives : $7 \times 2 = 14$
- (a) Which of the following is the administrative section of a computer system ?
- (i) Input Unit
 - (ii) Output Unit
 - (iii) Memory Unit
 - (iv) Central Processing Unit
- (b) Select the smallest memory size.
- (i) Terabyte
 - (ii) Gigabyte
 - (iii) Kilobyte
 - (iv) Megabyte

- (c) Which of the following is used for both input and output ?
- (i) Computer terminal
 - (ii) Pen plotter
 - (iii) Dot matrix printer
 - (iv) None of the above
- (d) A computer can move data and instructions between storage and memory as needed in a process called
- (i) Swapping
 - (ii) Volatility
 - (iii) Pipelining
 - (iv) All of the above
- (e) The term MBPS stands for
- (i) Megabits per second
 - (ii) Megabytes per second
 - (iii) Neither (i) nor (ii)
 - (iv) Both (i) and (ii)
- (f) Which of the following is a small program that runs when you start the computer ?
- (i) File allocation table
 - (ii) Master boot record
 - (iii) Sector
 - (iv) Cylinder
- (g) RAID configuration of disks are used to provide
- (i) fault tolerance
 - (ii) high speed
 - (iii) high data density
 - (iv) None of the above

2. (a) Discuss the basic organization of a computer system and explain the functions of various units of a computer system. 10
- (b) What are the advantages of transistors over vacuum tubes? 4
3. (a) What is system bus? Name and explain the various units of a system bus in detail. 7
- (b) Why are input and output devices necessary for a computer system? 7
4. (a) What are mass storage devices? How are they useful in storing large amounts of data? 7
- (b) Describe the function of lands and pits on the surface of a compact disk. 7
5. Distinguish between any *two* of the following : $2 \times 7 = 14$
- (a) Sequential mode and Random mode
- (b) Static RAM and Dynamic RAM
- (c) Magnetic tape and Magnetic disk
6. (a) Explain about the different types of optical disks and also explain their advantages and disadvantages. 7
- (b) Discuss about Keyboard, Mouse interface connectors. 7

7. (a) Explain the significance of cache memory in a computer system in detail. 7
- (b) Write about the different transfer modes of hard disk. 7
8. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Mother board
- (b) Power supply
- (c) Ports
- (d) Ribbon cables
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