No. of Printed Pages: 4

**BICS-028** 

Maximum Marks: 70

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

## **Term-End Examination**

June, 2015

00124

Time: 2 hours

**BICS-028: PC ASSEMBLY AND MAINTENANCE** 

Note: Attempt any five questions. Question number 1 is compulsory. All questions carry equal marks. 1. (a) Firmware runs from the 2 **CIOS** (i) (ii) RAM (iii) BIOS (iv) ROM **(b)** Set of integrated circuits that allow stored data access in any order is called 2 (i) **ROM** (ii) RAM Mother-board (iii)

(iv) PC

	(1) Copy	
	(ii) Store	
	(iii) Read and write	
	(iv) Edit	
(d)	Which of the following is an example of	
	external device?	2
	(i) Scanner	
	(ii) BIOS	
	(iii) Hard disk	
	(iv) CPU	
(e)	Which type of data is stored in SSD?	2
	(i) Permanent	
	(ii) Current	
	(iii) Persistent	
	(iv) Temporary	
<b>(f)</b>	In which technology are two or more hard	
•	disk drives used?	2
	(i) BIOS	
	(ii) CIOS	
	(iii) RAPID	
	(iv) RAID	
( <b>g</b> )	Expansion cards are also called as	2
	(i) Modems	
	(ii) Peripherals	
	(iii) Adapters	
	(iv) Connectors	
3ICS-028	2	
	<del></del>	

Blu-ray is used to

**(c)** 

2.	(a)	What are Add on Cards? Draw SMPS block diagram. Explain the functions and operations of Add on Cards.	7				
	(b)	How do you explain Disk Controller? Specify the various disk characters and operations.					
3.	3. (a) What is a cluster? Discuss the proper a magnetic disk.						
	What is optical storage? Also discuss about CD-R, CD-RW and CD-ROM in detail.	7					
4.	(a)	What do you understand by data transfer? Also explain how DMA mode is better than other modes.					
	(b)	Explain Memory Addressing. Differentiate between Static and Dynamic RAMs. Also explain their functions.	7				
5.	(a)	What is a video memory? Draw and explain the features of cache memory.	7				
	(b)	What is a port? Differentiate between serial and parallel ports and discuss their features.	. 7				
6.	(a)	What do you mean by RAID technology? Explain with a suitable diagram.	7				
	(b)	What is HMA? Explain the features and advantages of flat memory model.	7				

<b>7.</b>	(a)	Describe	hard	disk	inte	erfaces	in	detail.
		Explain	keybo	ard	and	mouse	ir	terface
		connector	rs.					

- (b) Differentiate between constant linear and constant angular velocity. Also explain the data transfer rate and access time.
- 8. Write short notes on any **four** of the following:  $4 \times 3\frac{1}{2} = 14$ 
  - (a) IDE
  - (b) Ultra DMA
  - (c) Sectors
  - (d) WORM Devices
  - (e) Holographic Storage
  - (f) USB

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