No. of Printed Pages: 4

Time: 2 hours

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 December, 2015

BICS-028: PC ASSEMBLY AND MAINTENANCE

Note: Attempt any five questions. Question number 1 is compulsory. All questions carry equal marks. Which of the following is an example of 1. (\mathbf{a}) 2 Internal device? Digital Camera (i) (ii) Printer (iii) BIOS (iv) Scanner Sockets are used to exactly match a 2 (b) (i) bus (ii) sectors (iii) chip (iv) data

(c)	Use	er-defined data used by a set-up	
	prog	gram resides in	2
	(i)	BIOS	
	(ii)	CMOS	
	(iii)	Mother Board	
	(iv)	ROM	
(d)	Exp	oansion cards are also called as	2
	(i)	connectors	
	(ii)	sockets	
	(iii)	peripherals	
	(iv)	adapters	
(e)		ich of the following contains a set of tocols?	2
	(i)	CMOS	
	(ii)	ISA	
	(iii)	ATA	
	(iv)	PCI	
(f)	Firn	nware runs from the	2
(=)	(i)	CIOS	_
	(ii)		
	• ′	ROM	
	. ,	RAM	
<i>(</i>)	• •		
(g)	If cache is common for both data and instructions, it is called		
	(i)	United cache	2
	(ii)		
		Unified cache	
	, ,	Persistent cache	
	(14)	1 CLOBOULL CACHE	

2.	(a)	Explain in detail the functions and operations of SMPS. Also draw its block	
		diagram.	7
	(b)	What do you understand by hardware components? Explain the parts and functions of a mother board.	7
3.	(a)	What are ports and slots? Briefly explain their features and functions.	7
	(b)	Describe the functions of cluster. Explain in detail about magnetic data storage.	7
4.	(a)	Explain the properties of hard disk drives.	
		Describe the partitioning and formatting performed in a hard disk.	7
	(b)	Describe various modes of data transfer. Also discuss how DNA mode is better than other modes.	7
5.	(a)	What is Data Addressing? Differentiate between Standard CHS and Extended CHS.	7
	(b)	Explain Sector Layout. Also discuss various components of disk access time.	7
6.	(a)	What are Segment and Virtual memories? Explain the various memory addresses in detail.	7
	(b)	How do you explain magnetic optical devices? Briefly explain the features of a DVD.	7

- 7. (a) What is a Port? Explain its types and give examples.
 - (b) What are Interfaces? Explain Keyboard and Mouse Interfaces.
- **8.** Write short notes on any **four** of the following: $4 \times 3\frac{1}{2} = 14$
 - (a) IDE
 - (b) Holographic Storage
 - (c) AGP
 - (d) USB
 - (e) PCI
 - (f) RAID

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