

BRAINWARE UNIVERSITY

Course - BCA

Computer Fundamentals and PCS (BCA101/BCAC101)

(Semester -1)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

d. 64-bits

 $10 \times 1 = 10$

	(Multiple Choice Type Questions)			
1.	Choose the correct alternative from the following:			
(i)	Regarding a VDU, which statement is more appropriate?			
	a. It is an output device	b. It is an input device		
	c. It is a peripheral device	d. It is hardware item		
(ii)	Dot-matrix is a type of			
	a. Tape	b. Printer		
	c. Disk	d. Bus		
(iii)	The binary system uses powers of			
	a. 2	b. 10		
	c. 8	d. 16		
(iv)	Which is not application software?			
	a. Windows NT	b. Page Maker		
	c. WinWord XP	d. Photoshop		
(v)	Which of the following is not the possible way of data exchange?			
	a. Simplex	b. Multiplex		
	c. Half-Duplex	d. Full-Duplex		
(vi)	What is the size of MAC address?			
	a. 16-bits	b. 32-bits		

c. 48-bits

(vii)	ii) A word processor would most likely be used to do		
	a. keep an account of money spent	b. do a computer search in med	ia center
	c. maintain an inventory	d. type a biography	
(viii)	"Ctrl + PageDown" is used to		
	 a. Moves the cursor one Paragraph Down 	b. Moves the cursor one Page I	Oown
	c. Moves the cursor one Line Down	d. Moves the cursor one Screen	Down
(ix)	The key selected from candidate keys is known	own as	
	a. Primary Key	b. Secondary Key	
	c. Super Key	d. Foreign Key	
(x)	A single packet on data link layer is known	as	
	a. Path	b. Frame	
	c. Block	d. Group	
	Group	– B	
	(Short Answer Ty		
	(Answer any three from	om the following)	
2.	What are the basic components of a compute	r? Describe briefly with	$3 \times 5 = 15$
۷.	diagram.	1: Describe offerty with	[1 + 4]
3.	Convert:		
	i) $(BAE.8)_{16} = (?)_2$		[2]
	ii) $(357)_8 = (?)_{10}$		[3]
4.	What are the differences among Multi-progra	amming, Multi-processing &	
	Multi-threading operating systems?		[5]
5.	What are the differences between OSI & TCP/IP model?		[5]
6.	What is Windows? Compare Windows NT, V	Windows XP & Windows	
	Vista.		[1 + 4]
	Group	– C	
	(Long Answer T	• •	
	(Answer any three from	om the following)	2 = 15 45
7.	(a) How many types of primary memory?		$3 \times 15 = 45$
,.	(b) What is an operating system? How does	es it relate hardware & software?	[5]
	(c) Describe different types of Input Device	ces with example.	[9]

(a)	What is DBMS? What is the relationship between Tuples & Attributes?	[2+5]
(b)	Briefly explain different types of networking devices.	[8]
(a)	What are the differences between Internal & External Commands of MS-DOS?	[2]
(b)	What is the meaning of OSI in ISO OSI Model? Describe different	
	functionalities of Data link Layer in OSI model.	[3 + 5]
(c)	How to format a cell in Spreadsheet? Explain.	[5]
(a)	What are the different accessories of Windows? Explain briefly.	[5]
(b)	How many types of mass storage in a computer? Describe.	[6]
(c)	What is the difference between data & information? Explain.	[4]
11. Short Notes (Any <i>Three</i>):-		[3 x5]
(a)	Memory Hierarchy	
(b)	Number System	
(c)	IP Addressing Scheme	
(d)	Custom Animations in Power Point Presentation	
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	(b) (a) (b) (c) (a) (b) (c) hort N (a) (b) (c) (d)	Describe it with an example. (b) Briefly explain different types of networking devices. (a) What are the differences between Internal & External Commands of MS-DOS? (b) What is the meaning of OSI in ISO OSI Model? Describe different functionalities of Data link Layer in OSI model. (c) How to format a cell in Spreadsheet? Explain. (a) What are the different accessories of Windows? Explain briefly. (b) How many types of mass storage in a computer? Describe. (c) What is the difference between data & information? Explain.