

## **BRAINWARE UNIVERSITY**

Course - B.Sc. (HN)

## Computer Fundamentals and PCS (BHN101 / BHNC101)

(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

		(Multiple Choice Ty	pe Q	uestions) 10 x 1	= 10		
1.	Choose the correct alternative from the following						
(i)	Softwa	are in computer					
	a. c.	Enhance the capabilities of the hardware machine Both of these		Increase the speed of central processing unit None of these			
(ii)	What is the responsibility of the logical unit in the CPU of a computer?						
	a.	To produce result	b.	To compare numbers			
	c.	To control flow of information	d.	To do math's works			
(iii)	If in a computer, 16 bits are used to specify address in a RAM, the number of addresses will be						
	a.	216	b.	65,536			
	c.	64K	d.	Any of the these			
(iv)	Instructions and memory address are represented by						
	a.	Character code	b.	Binary code			
	c.	Binary word	d.	Parity bit			
(v)	People often call as the brain of computer system.						
	a.	Control Unit	b.	Arithmetic Logic Unit			
	c.	Central Processing Unit	d.	Storage Unit			
(vi)	Which	is used for manufacturing chips?					
	a.	Bus	b.	Control unit			
	c.	Semiconductors	d.	a and b only			

				Bin (101 / Bin (C101 (1	<i></i>			
(vii)	Which generation of	f computer is stil	l under deve	`	,,,			
	a. Fourth Gene	ration	b.	Fifth Generation				
	c. Sixth Genera	ation	d.	Seventh Generation				
(viii)	Which was the mos	ch was the most popular first generation computer?						
	a. IBM 1650		b.	IBM 360				
	c. IBM 1130		d.	IBM 2700				
(ix)	Which is considered							
	a. Optical scan	ner	b.	Mouse and digitizer				
	c. Light pen		d.	All of the these				
(x)	A set of information	ess is						
	a. Process cont	rol	b.	ALU				
	c. Register Uni	i <b>t</b>	d.	Process description				
		$\mathbf{G}$	roup – B					
		(Short Answ	-	estions)	3 x 5 = 15			
			or Type Qu	estions)	3 A 3 = 13			
Ansv 2.	ver any <i>three</i> from the Convert the following	_	number syst	em conversion				
2.	(a) $(23872)_{10} = (?)_2$	, numbers using	number syst	chi conversion	[2]			
	(b) (1001100110011				[3]			
3.	Write down differenc			nodel.	[5]			
4. 5.	Write down the basic Explain the various co			in DOS	[5] [5]			
<i>5</i> . 6.	Write down the relation				[3]			
·.	conceptual schema.		ilai somonia,	chtomar sonoma and	[5]			
		$\mathbf{G}$	roup – C					
		(Long Answ	er Type Qu	estions)	3 x 15 = 45			
Ansv	ver any three from the	following						
7.	(a) What is the relat	ion between Har	dware and s	oftware?	[5]			
	(b) What is PCB? D	-			[8]			
0	` '			parallel execution	[2]			
8.	<ul><li>(a) Explain "Memor</li><li>(b) What is the different to the differ</li></ul>	ry Hierarchy" wi		_	[10]			
9.	` '			s in respect of IPv4.	[5] [6]			
· ·	* *	erence between n		-	[3]			
	(c) What is subnet r				[3]			
		-		nd full duplex method.	[3]			

10.	(a)	What is entity?	[2]
	(b)	What is Attribute? Write down the difference between simple and	
		composite attribute. What is derive attribute?	[1+3+2]
	(c)	What is foreign key? Explain with proper example.	[4]
	(d)	What types of symbol are used to represent attribute, entity and	
		relationship in E-R diagram?	[3]
11.	Write short notes on any three of the following.		
	(a)	Network Device	
	(b)	Types of Operating System	
	(c)	Input Devices	
	(d)	Generation of Computers	
	(e)	Security of windows	