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First/Second Semester B.E. Degree Examination, June/July 2017 Computer Concepts and C Programming

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Max. Marks:100

Note: Answer any FIVE full questions, choosing at least TWO from each part.

		choosing in tense 1770 from each parts
		PART – A
1	a.	Choose the correct answers for the following: i) Which of the following device stored instructions that help computer to start up? A) Joy stick B) RAM C) ROM D) Monitor ii) Who is called the father of computer?
		A) Balise Pascal B) Charles Babbage C) Joseph Jacquard D) Dr. Hewrman Hollerith
		C) Joseph Jacquard D) Dr. Hewrman Hollerith iii) A collection of 8-bits is called
		A) Byte B) Word C) Record D) File iv) A computer resolution is determined by
		A) Monitor B) Video C) CPU D) System unit.
	b.	With a neat diagram, explain the basic structure of a computer. (08 Marks)
	c.	i) Convert the decimal number 512 ₁₀ to binary form
	d	ii) Convert the binary number 100011 to decimal form. (04 Marks) Explain two type of monitors based on the technique used to display image and text.
		(04 Marks)
2		
2	a.	Choose the correct answers for the following: i) The CPU uses a to store and retrieve each piece of data in the memory
		A) Control unit B) Cache C) Post D) Memory location
		ii) A magnetic Disk's tracks are divided into smaller parts called
		A) Clusters B) Sectors C) Bytes D) Slices
		iii) A distributed network configuration in which all data information passes through center
		computer is
		A) BUS Network B) Star Network C) Ring Network D) Point-to-Network
		iv) If you want to execute more than one program at a time, the system software you must
		be capable of
		A) Word processing B) Virtual Memory
		C) Compiling D) Multi tasking.
	b.	What is an operating system? List and explain different types of operating system based on
	C	usage and requirement. (08 Marks)
	c.	What is OSI model? Explain principle used to develop seven layers of OSI model. (04 Marks)
	d.	Briefly explain the following processors:
		i) AMD ii) IBM (04 Marks)

3	a.	Choose the correct answers for the following	중사	(04 Marks)							
		 The flowcharting symbol diamond s 		Sedentino escurio 272							
		A) Start B) Process		D) End							
		ii) Which of the following are not valid									
		A) Student-Name B) Total	C) Znames	D) int							
		iii) DOS stands for		32 (m.h.							
		 A) Distributed operating systems 	B) Disk operating s								
		C) Driver operating systems	D) Diskless operatin	g systems							
		iv) Which of the following is an I/P fur	ection?								
		A) Scanf B) printf	C)puts()	D) putchar().							
	b.	Briefly explain the different functions p	erformed by the operating syste	ms. (04 Marks)							
	c.	e. What is the need of network topology? Explain the following different									
		topologies:									
		i) Bus Topology ii) Star Topology iii)	ology. (08 Marks)								
	d.	What is variable? Explain variable initia	(04 Marks)								
	٠,,	That is farmered Employer to the control in the	.5 0	· Constanting							
4	a.	Choose the correct answers for the following	owing:	(04 Marks)							
		i) The step by step procedure to solve									
		A) Flowchart B) Program	C) Instruction	D) Algorithms							
		ii) Which of the following is not a vali									
		A) $X = 23$ B) $4X = 8 = 8$		D) $x = r = 5$							
		iii) An infinite loop in a program sequ		eates error, what type							
		error is it?									
		A) Syntax Error B) Logical	Error C) Run-Time Error	D) None of these							
		iv) Which of the following has highest		_,							
		A) Pre fix increment B) Multiply		D) Assignment,							
	b.	Explain the following operators, with e		D) Hooiginite							
	U.	i) Relational operator ii) Increment operator iii) Conditional operator iv) Special operator iv)									
	c.										
	d.										
	35,742	d. What is the value of x? If $a = 100$, $b = 150$ and $x = (a > b)$? $a : b$;.									
		PART – B									
5	a.	Choose the correct answers for the following	owing:	(04 Marks)							
•	***	i) To read a single character, which of	그림 전 :								
		A) putchar() B) getchar(D) putch()							
		-) F()									
		ii) A function that calls itself for its proA) Inline Function	B) Nested Function								
		C) Over loaded Function	on								
		iii) Arguments of a function are separat	D) Recursive Functi	OII							
				D) Name of these							
		A) comma (,) B) semicolo		D) None of these							
		iv) Which operator has the highest prod									
		A) + B) *	C) ++	D) >>							
	b.	What is difference between IF-ELSE an	d Switch statement?	(04 Marks)							
	c.	Explain with an example the different ways of passing parameter to function.									
	d.	Write a C program to find the largest of their integers with appropriate message. (04 Mai									

6	a	 a. Choose the correct answers for i) Determine how many times the segment int x = 5, y = 50; while (x <= y) 	or the following: mes the body of t	he loop is executed i	(04 Marks) n the given program
		X = y x;			
		}			
		2014 NOTE 10 10 10 10 10 10 10 10 10 10 10 10 10) 1	C) Infinite	D) Error
		ii) Which of the following is		erator?	
			s) < =	C) =	D) > =
		iii) Given a for loop as:			
		for $(i = 1; j < = 32; y)$			
		printf ("%d", i)	00 00 0/0 061 0	4 0 16 20 111	0.1. 0.11
		if this for loop must produce replace y?	ce an o/p or 1, 2,	4, 8, 16, 32, which o	t the following must
		The same of the sa	$i = i \times 2$	C) $i = i/2$	D) M C(I
		iv) Which statement is called	l as an bypasses?	C) 1- 1/2	D) None of these
) continue	C) break	D) switch.
	b.	1 G - F - I - I - I	sed in C.	3.0	(06 Marks)
	c.		nd the factorial of	a number.	(04 Marks)
	d.	. Using flowchart and syntax, ex	xplain pretest and p	osttest loops.	(06 Marks)
7	a.	. Choose the correct answers for	u tha fallannin .		
	***	i) Array is which data type?	the following:		(04 Marks)
		4/920 U 2010 10	user defined	C) primary data type	D) derived datatune
		ii) is an integral value	used to access ele	ment of an array	b) derived datatype
		A) constant B)	element	C) variable	D) index
		iii) The statement int m[3][5] = will be	= {{0}, {0}, {0}};	is used and the value	of statement m[2][2]
		A) 1 B)		C) 2	D) 0
		iv) The process through which	data are arranged	according to their value	es is known as
	b.		Searching	C) Listing	D) Sorting
	υ,	1 8	lements of an array	using bubble sort.	(08 Marks)
	c.	What is an array? How do yo Explain with example.	ou declare and mi	tialize ONE and Two	1,70
					(08 Marks)
8	a.	The contract mistrell for	the following:		(04 Marks)
		 Parallel computing is 	_ execution of ins	tructions in a computer	system
		A) Simultaneous B)	Serial	C) Accurate	D) Complete
		ii) The process of splitting a	lengthy and com	plete program into a	number of smaller
		programs is called A) Unit program B)	Madula	O/D !!!!	
		iii) Identify mathematical funct	ion in the fellowin	C) Build-In program	D)Logical program
			The state of the s	Tilliano viene en	D)!()
		iv) A variable declared inside a	function is called	C) fabs()	D) main()
		A) personal B)	public		D) Local.
	b.	What are threads? Highlight the	need of threads.		(08 Marks)
	c.	What are open mp directives wh	nich help in synchro	onization of task? Expl	ain in detail.
			30 W W S =		(08 Marks)