	treated as malpractice.
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impleting your answers, col asonly draw diagonal cross lines on the remaining blank f	vealing of identification, appeal to evaluator and for equations written eg, 42+8 - 50, will
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First/Second Semester B.E. Degree Examination, June/July 2015 Computer Concepts and C Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least two from each part.

		$\underline{PART - A}$						
1	a,	i) Which of the following task is performed by a computer						
		A) processing B) input C) output D) all of these						
		ii) The section within the CPU contains the stored program						
		A) secondary storage B) primary storage C)both A and B D) neither A and B						
		iii) A small unit consisting of integrated circuits is sometimes called as						
		A) processor B) chip C) circuit D) gadget						
		iv) What hardware was used by first generation computers?						
		A) vaccum tubes B) valves C) VLSI D) ICs. (04 Marks)						
	b.	Describe the features of a computer. (06 Marks)						
	¢.	What are printers? Explain the types of printers. (06 Marks)						
	d.	Explain the different types of microprocessors. (04 Marks)						
		(04 Mains)						
2	a.	i) Categorize the CD – ROM is the following memory device						
		A) semiconductor memory B) memory register						
		C) magnetic memory D) none of these						
		ii) Two basic types of operating systems are						
		A) sequential and discontinuous B) batch and interactive						
		C) batch and time sharing D) sequential and real time.						
		iii) Which of the following topology is not broadcast type						
		iii) Which of the following topology is not broadcast type A) star B) bus C) ring D) tree						
		iv) Identify the odd term among the following group						
		A) coaxial cable B) optical fibre C) twisted pair wire D) microwaves						
	,	(04 Marks)						
	b.	What is operating systems? Explain the different types of operating systems. (08 Marks)						
	c.	Explain the need of networking and benefits of networking. (08 Marks)						
3	a.	i) Which of the following is considered as a token in C language						
		A) keyword B) identifier C) operator D)all of the above						
		ii) The keyword among the following passes the program control out of block						
		A) continue B) if C) break D) goto						
		iii) In a C program, prior to using a variable, you must first it						
		A) initialize B) declare C) define D)both A and B						
		iv) What will be the output of the following int $a = b = c = 3$;						
		printf("%d %d %d", a, b, c)						
		A) 3 3 B) garbage value C)0 0 0 D)error.						
	L	Write a flower and the invest the second sec						
	b.	Write a flowchart to input three numbers and print largest of three numbers. (06 Marks)						
	c.	Write a structure of a C program. (05 Marks)						
	d.	. What is a variable? How it is declared and initialized? Give example. (05 Marks						

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4	a.	i)	Which of the following is a ternary operator,							
			A) >=	B) <	C)?:	D) &&				
		ii)	Which is the floating p	•	-,	_,				
			A) '400.0'	B) 0.0457	C) "0.0457"	D)457				
		iii)	What is the associativit	f = relational ope		,				
			A) left to right	B) right to left	C) no associativi	ty D)none of	the above			
		iv)	Which statement is sin	nilar to a?b = $c:d$?	•	•				
			A)($a?b = c$) : d	B) $(a?b) = (c:d)$	C) a $?(b = c : d)$	D) a? $(b = c$) : d. (04 Marks)			
	b.	Wh	at are operators? Explai		(10 Marks)					
	c.		ite a program to find the		(06 Marks)					
				•	1	:	,			
				PART – B						
5	9	6	Array elements cannot	he necond to a function	n ugina					
3	а.	1)	A) call by value	B) call by reference	-	D) none	afthasa			
		(ii	When a function does				or mese			
		11,	A) void	B) null	~		A and B			
		(iii	Identify the error in the		C)ZCIO	D) 00ui	A and D			
			ction (int a, int b)	program segment						
			{							
			int a;	ند ابر						
			a = 40;							
			return (b);	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
			}							
			A) the function should.	be defined as int functi	ion (int a, int b)					
			B) variable is re-declar	ed						
			C) both A and B							
			D) neither of A and B							
		iv)	The getokar() and put		-					
	h	,	A) sedio h	B) conio.h	C) string.h	D) ctype.h	(04 Marks)			
		Wri	ite a program using fund	ction to sort an array of	fintegers.		(08 Marks)			
	c.	wn	at are the parameter pas	sing mechanism in C?	Explain in brief.		(08 Marks)			
6	a	i)	Which of the following	g 'C' statement braches	s unconditionally i	from one poin	t to another			
			point in the program?		•	1				
			A) if	B) goto	C) switch	D) if-els	e			
		ii)	When more than one if	else statements are us	ed in a sequence. I	It is known as				
			A) if else ladder	D) neste	d else					
		iii)	Which of the following executes one or more statements repeatedly unitl a condition is							
			met?							
			A) if	B) switch	C) for	D) conti	nue			
		iv)	A loop with no test con							
			A) while	B) do while	C) for	D) none				
	b.	W/=:	te a program using de	while lear to Jim	las, musika sa 1	to 141	(04 Marks)			
	٠.	₹¥ 1 1	te a program using do	while loop to disp	lay numbers 1 to	10, without us				
	c.	Diff	ferentiate between while	and do while loor) .		(08 Marks) (08 Marks)			
				1001			(an interior)			

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7	a.	i)	How many dimensions an array can ha	ave?							
			A) one dimension	sion							
			C) three dimension	D) any no. of	D) any no. of dimensions.						
		ii)	How many elements can be added or removed from an array at a time								
			A) 2 B) 1	C) 4	D) 6						
		iii)	What is the output of the following co								
			int $x[2][2] = \{3, 2, 5, 4\};$								
			printf("%d", x[1][1]);								
			A) 3 B) 4	C) 5	D) 2						
		iv)	Elements of an array are stored in								
			memory location	1S							
	_		C) scattered memory locations		D) direct memory locations. (
	b.		e a program to print the product of two			(10Marks)					
	C.	Wha	t is an array? Explain the types of an arr	rray with examples. (06M							
			,								
8	a.	i) (Open MP stands for								
			A) open multiprocessing	B) open main	B) open main parallelism						
			C) open multitasking parallelism	D) open multi	D) open multiprocessor						
		ii) The function provides the number of processors, which is used									
		program.									
			A) omp-get-num-procs()	um-threads()							
			C) omp-get-thread-num()	D) omp-set-m	ım-threads()						
		iii) (
		A) join model B) Fork - Join model C) Joint - fork model D)st									
		iv) The main components of open MP are directives, environmental variables									
			A) Runtime variable	B) library fun-	ctions						
			B) C)instances wariables	D) none.		(04 Marks)					
	b.	b. What is synchronization in open MP? Explain the different synchronization									
		337 °				(08 Marks)					
	¢.	Write	e a program to find the factorial of a num	mber using open MP	•	(08 Marks)					
			$\mathcal{A} = \mathcal{A}_{\mathcal{A}} \mathcal{A}_{\mathcal{A}}$ $\mathcal{A} = \mathcal{A}_{\mathcal{A}} \mathcal{A}_{\mathcal{A}}$								
		1									