First/Second Semester B.E. Degree Examination, June/July 2013

Computer Concepts and C Programming

	e: 3 hrs.			Max. Marks:100
Note	2. Ans	swer any FIVE full questions, choosing swer all objective type questions only in swer to objective type questions on she	n OMR sheet page 5 of t	the answer booklet.
190		PART -	- A	
1	a. Cho	oose the correct answers for the following		(04 Marks)
	i)	The term dots per inch (dpi) refers to pr		
	<i>S</i>	A) resolution B) speed	C) output	D) colours
	ii)	is used to identify product and	provide information such	as price.
		A) Price check	B) Bar code reader	
		C) Numeric digit	D) Light sensitive d	etector
	iii)	is not a computer language.		
		A) Assembly language	B) High level langu	age
		C) Natural language	D) Machine level la	nguage
	iv)	Which operating system first appeared	with IBM PC?	
		A) Windows B) Linux	C) Mac OS	D) DOS
1	o. Wha	at is information processing cycle? Explain	in four steps with flow cha	art. (04 Marks)
1	e. Witl	h a neat diagram, explain functions of eac	h units of basic model of	computer. (06 Marks)
ſ	d. Con	vert the following:		
	i) ($(10101)_2 = (?)_{10} = (?)_{16}$ ii) $(50)_8 = (?)_{10}$	$(?)_{10} = (?)_2$	(06 Marks)
2 a	a. Cho	oose the correct answers for the following	20 20 3 ■ 0	(04 Marks)
	i)	is two or more LAN's connected	ed together across large go	eographical area.
		A) GAN B) LAN	C) WAN	D) MLAN
	ii)	Temporary storage in main memory is	called as	
		A) Buffer	B) Secondary memo	ory
		C) Tirtary memory	D) None of these	
	iii)	Which of the following unit represents	largest amount of data?	
		A) Kilobyte [*] B) Terabyte		D) Megabyte
	iv)	Identification number of every comput	er connected to internet is	
	**	A) Sub net mask B) Gate way	C) MAC address	D) IP address
1	b. Exp	lain basic components of a network.		(04 Marks)
4.	e. Defi	ine operating system. Discuss functions o	f operating system.	(06 Marks)
		lain working of hard disk with a neat diag	gram. Give advantages and	dicadvantage
Ç				(06 Marks)
(d. Exp.			(06 Marks)
	d. Exp.	oose the correct answers for the following		j a − / ₀
(d. Exp.	oose the correct answers for the following The number 0987 is integer.		(06 Marks)
(d. Exp.	The number 0987 is integer. A) octal B) decimal	: C) hexadecimal	(06 Marks)
(d. Exp.	oose the correct answers for the following The number 0987 is integer.		(06 Marks) (04 Marks) D) invalid

3	a.	iii) The result after evaluating the expression 1/2 * 4 is A) 0.25 B) 2 C) 0	D) 0.125
		iv) What is the output if following program executed? main ()	
		{	
		printf("%d", 'A');	
		A) 65 B) A C) "A"	D) Error
	b.		(04 Marks)
	c.	What are identifiers? Discuss the rules to be followed while	naming identifiers. Give
		examples.	(06 Marks)
	d.		
		data types.	(06 Marks)
4	a.	Choose the correct answers for the following:	(04 Marks)
		i) An operator which acts on two operands to produce result is	operator.
		A) ternary B) binary C) unary	D) complex
		ii) The modulus operator (%) can be used only for values	5.
		A) floating B) integer C) both integer and floating D) all data type	
		iii) In C, TRUE is represented by	
		A) true B) zero C) non-zero	D) 1
		iv) Which of the following is not valid assignment statement?	COLL
		A) $i + j = 23$ B) $j = 23$ C) $j + = 23$, ,
	b.	Write C program to swap values of two integers without using thi	Č
		chart for the same. Find the result of each of the following expressions with $i = 4$, $i = 3$	(06 Marks)
	C.	Find the result of each of the following expressions with $i = 4$, $j = 2$ i) $k * = i + j$ ii) $j = i/ = k$ iii) $i\% = 1$	
		iv) $m = i + (j = 2 + k)$ v) $a = i*(j/=k/2)$	(10 Marks)
			(10 Marks)
		PART – B	
5	a.	Choose the correct answers for the following:	(04 Marks)
		 i) In c, default return type of function is A) void B) int C) float 	D) char
		ii) Parameters used in function call are parameters.	D) Chai
		A) formal B) local C) dummy	D) actual
		iii) Every C program must have	
		A) user defined function B) standard func	etion
		C) main function D) library functi	•
		· · · · · · · · · · · · · · · · · · ·	ion
		iv) Arguments of a function are separated with	
· · · · · · · · · · · · · · · · · · ·	•	iv) Arguments of a function are separated withA) comma(,) B) semicolon(;) C) colon(:)	D) blank space (め)
	b.	 iv) Arguments of a function are separated with A) comma(,) B) semicolon(;) C) colon(:) Write C program to print n fibbonacci numbers using function. 	D) blank space (め) (08 Marks)
	c.	iv) Arguments of a function are separated with A) comma(,) B) semicolon(;) C) colon(:) Write C program to print n fibbonacci numbers using function. Differentiate call by value and call by address parameter passing me	D) blank space (め) (08 Marks) echanisms. (04 Marks)
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6	c.	iv) Arguments of a function are separated with A) comma(,) B) semicolon(;) C) colon(:) Write C program to print n fibbonacci numbers using function. Differentiate call by value and call by address parameter passing me Explain the scope of local and global variables with simple example. Choose the correct answers for the following:	D) blank space (め) (08 Marks) echanisms. (04 Marks)
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A) < B) > C) = D) != iii) What is the output if following loop is executed? for (i = 1; i < 5; i++); printf ("VTU"); A) syntax error B) VTU C) VTUVTUVTUVTU D) VTUVTUVTUVTUVTU iv) while (0) {printf ("CCP")}, how many times this loop will execute? A) 0 B) 1 C) error D) infinite times b. Write C program to find roots of quadratic equation. Consider all possible cases of roots. (06 Mark: c. Write C program to evaluate following expression: answer = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots \dot
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C) int marks [2 – 2]; iv) ASCII stands for A) American Standard Code for International Information
iv) ASCII stands for A) American Standard Code for International Information
A) American Standard Code for International Information
B) American Standard Company for International Integration
C) American Standard Code for International Integration D) American Standard Code for Information Interchange.
b. Write C program to search an element from unsorted list using binary search. (12 Marks
c. What is the difference between a character and a string containing a single character?
(04 Mark
8 a. Choose the correct answers for the following: (04 Marks
i) Parallel computing is execution of instructions.
A) serial B) accurate C) complete D) sequential
ii) Single sequential flow of control within a program is
A) thread B) instruction C) program D) none of these
iii) POSIX stands for
A) Preliminary Operating System Integration for extended system.
B) Portable Operating System Interface for Unix
C) Preliminary Operating System Interface for Unix
D) Portable Operating System Integration for Unix.
iv) API stands for
A) Application Programming Interface B) Application Parameter Interface C) Application Programming Information D) Application Programming Information
C) Application Processing Interface D)Application Programming Information b. Explain motivating factors for parallelism. (06 Marks
c. Explain motivating factors for parametism. (00 Marks) (04 Marks)
d. What are Open MP directives which help in synchronization of task? Explain. (06 Marks

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