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USN					10CCP1		
			First Semester B.E. Degree Exa	mination, Januar	ry 2011		
			Computer Concepts and	d C Programn	ning		
Tim	ie: 3	B hrs.	o treprese dillor, entre		Max. Marks:100		
Not	2.	Ans	swer any FIVE full questions, choosing of the swer all objective type questions only on swer to objective type questions on sheets	OMR sheet page 5 of	the answer booklet.		
			PART – A	The state of the state of			
1	a.	Cho	oose your answers for the following:				
		i)	Which of these are also known as PDA s	?			
		NO.	A) workstations B) mainframes	C) handheld PC s	D) super compute		
		ii)	Which is the most powerful type of comp				
			A) microcomputer	B) minicomputer			
			C) mainframe computer	D) super computer			
		iii)	Which of the software is used for creating				
		111)	A) web design software	B) word processing	software		
			C) Presentation software	D) spread sheet soft			
		iv)	Which of the following is not a type of m		ware		
		11)	A) infra-red mouse	B) opto-mechanical	mouse		
			C) optical mouse	D) wireless mouse	(04 Mark		
	b.	Dray	w the basic structure of computer and explain		(06 Mark		
	c.		lain the different types of printers.	ii iii otici.	(10 Mark		
	٠.	LAP	and the different types of printers.		(10 Mark		
		A1-600-1-	B 131 13				
2	a. Choose your answers for the following:						
		1)	The two types of storage available in host		and		
			A) primary and secondary	B) RAM and ROM			
			C) primary and hard disk	D) none of these			
		ii)	An example of magnetic storage device is				
			A) CD-ROM B) diskette	C) DVD	D) flash memory		
		iii)	What does the term SCSI stand for?				
			A) small computer software interface	B) small computer s	storage interface		
			C) small computer system interface	D) small computer s	standard interface		
		iv)	Acronym DOS stands for				
			A) disk operating system	B) driver operating			
			C) diskless operating system	D) distributed opera	ting system (04 Marks		
	b.	List	and explain any four types of computer processing techniques. (10 Mar				
	c.		lain the types of networks, in brief.		(06 Marks		
3	a.	Cho	ose your answers for the following:				
		i)	Which of the following is not a data type?				
			A) char B) float	C) int	D) logical		
		ii)	Symbols used in flow chart for decision m	aking is:			
			A) rectangle B) circle	C) parallelogram	D) diamond shape		

		100	CCP13
3	a.	iii) The tool used to convert a source program to a machine language is:	
		A) compiler B) loader	
		C) linker D) preprocessor iv) Which of the following is not a valid identifier?	
		A) _option B) amount C) \$amount D) sales_ar	nount 4 Marks)
	b.		8 Marks)
	c.	Draw the structure of C-program and explain in brief. (0	8 Marks)
4	a.	Choose your answers for the following:	
		i) Which of the following is a unary expression? A) $++\times$ B) \times C) -5 D) $x = 4$	
		ii) is used to determine the order in which different operations in	complex
		expression are evaluated.	1
		A) predictivity B) infix evaluation C) associativity D) none of	these
		iii) How will $a = (int)32.2/(int)4.3$ be evaluated?	
		A) 323/4.3 B) 32.0/4.0 C) 32/4 D) none of	these
		iv) Which is not an arithmetic operator?	
	1.		4 Marks)
	b.	Write C assignment statements for:	
		i) Area = $\pi r^2 + 2\pi rh$ ii) Torque = $\frac{2m_1m_2}{m_1 + m_2}$, g iii) Side = $\sqrt{a^2 + b^2 - 2abc}$	os(x) 6 Marks)
	c.	Write a C-program to convert degrees to radians accepting a value from user. (0	6 Marks)
	d.	Explain the postfix and prefix expressions, with examples. (0	4 Marks)
		PART – B	
5	a.	Choose your answers for the following:	
		i) The default return type of a function is:	
		A) void B) char C) int D) float	
		ii) A variable declared in a function is called A) actual variable B) local variable C) formal variable D) global v	ariable
		iii) The main() is a	uriuoie
		A) library function B) keyword	
		C) user defined function D) none of these	
		iv) Which of the following is not a part of function header?	
	b.		4 Marks)
	c.	Table 1 at 1 a	0 Marks) 6 Marks)
	200	, and a property of the same o	
6	a.	Choose your answers for the following:	
U		i) is a way to implement a multiway selection in C.	
		A) while do B) goto	
		C) for D) switch case	
		ii) Which of the following is not a comparator operator in C? A) < B) <= C) = D) >=	
		A) < B) <= C) = D) >=	

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Which of the C – loops is not a pretest loop?
    (iii
          A) do ..... while
                                                      B) for
                                                      D) none of these
          C) while
    iv) Given the while loop as:
              i = 1;
             while (i \le 32)
              print f ("%d", i);
          If the loop must produce an o/p of 1, 2, 4, 8, 16, 32, which of the following must
          replace y?
                                B) i = i/2 C) i = i \times 2
          A) i = i + 2
                                                                            D) none of these
                                                                                     (04 Marks)
b. List the different decision making statements. Explain any two with their syntax and
                                                                                     (07 Marks)
    Write the C-code to find factorial of a number with all the looping statements.
                                                                                     (06 Marks)
    Explain the use of break and continue statements.
                                                                                     (03 Marks)
a. Choose your answers for the following:
          If x [5] is a declaration, then the first and last array index will be:
          A) 1,5
                                B) 1, 6
                                                      C) 0, 4
                                                                            D) 0,5
          An array is a group of related data that shares a common
          A) name
                                B) index
                                                      C) values
                                                                            D) all of these
          Which of the following statement assigns the value stored in x to the first element on
    iii)
          an array, ary?
                                                      C) ary [0] = x;
          A) ary = x[1];
                                B) ary = x [0];
                                                                            D) ary [1] = x;
         The de-limiter in a C string is:
          A) new line
                                B) a del character
                                                      C) a null character
                                                                            D) none of these
                                                                                     (04 Marks)
b. Explain the declaration and initialization of one-dimensional array, with an example.
                                                                                     (06 Marks)
   Explain the initialization and declaration of C – strings.
                                                                                     (04 Marks)
d. Write a C - program to read an array of size 'N' and print the array elements.
                                                                                     (06 Marks)
    Choose your answers for the following:
          Parallel computing is
                                        execution of instructions in a computer.
    i)
                                B) serial
          A) simultaneous
                                                      C) accurate
                                                                            D) complete
    ii)
          Which of the following is not a synchronization construct?
                                B) master
                                                      C) section
                                                                            D) critical
    iii)
                    reduces multiple private copies of variables belonging to different threads
          into a single value.
          A) reduction
                                B) consolidate
                                                      C) deduction
          Which of the following open Mp environmental variables enables or disables nested
    iv)
          parallelism?
          A) omp_set_nested B) omp_get_nested C) omp_nested
                                                                            D) none of these
                                                                                     (04 Marks)
b. What is a thread? What are the advantages of using threads?
                                                                                     (06 Marks)
c. Explain the open Mp programming model, with a sample program.
                                                                                     (10 Marks)
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