							06CCP1	3/23
F	irst / Seco	ond Sem	ester B.E. D	)egree	Examination	on, Dec.0	9-Jan.10	
	C	ompute	er Concep	ts and	C Progra	mming		
Time: 3	hrs.					N	fax. Marks:	100
		Note	questions ; 2.Answer al page No :	from earl objects 5 of the	E full question ich Part. ives type quest Answer bookl jective type qu	tions only d	on OMR sh	eet,
					ot be valued.			
				PART	- A			
1 a.	i) Stylus is t	used to inpu					(04	Mark
	C) Sma	er computer rt phone an n is measur		,	Workstation None of these			
	A) Dots	per inch	B) Dot pitch		C) Pixels		None of these	е
	A) QW	ERTY	B) QEWRTY lso known as P	Y	ow of a standard C) QERWTY		is QYERTW	
b.			B) Mainfram optical charact		C) Hand held nition (OCR) a		ntion its adv	
c.			of impact and r	non – im	pact printers.			
	Explain diff Select the ri i) Number	ferent types ight answer	s in the following a standard ma	ng : agnetic d	isc is	D) 7	(10	Mark
2 a.	Explain diff Select the ri i) Number A) 79 ii) Which o A) Flopp	ferent types ight answer of tracks of f the follow by	s in the followin n a standard ma B) 80 ing can store m B) Compact	ng : agnetic d aximum disc	isc is C) 81 data? C) DVD		(10	Mark
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	<ul> <li>b. What is an operating system? What are its primary functions? (04 Marks)</li> <li>c. Discuss in brief, the four versions of windows operating system with their merits and demerits. (08 Marks)</li> </ul>
	d. Define the following terms: i) URL ii) HTTP iii) IP address iv) WWW. (04 Marks)
4	a. Select the right answers in the following:
	i) Symbol used in flow chart for repetition of a loop is A) Rectangle B) Payallelogram C) Circle D) Hexagon ii) If X = 1, Y = 2 and Z = 3, then Z + X * ½ - Y = ?
	A) Zero B) 1 C) -1 D) None of these iii) Which of the following is a valid integer?
	A) 10,000 B) OX 1234 C) 10 20 D) OX ABCD
	iv) Range of unsigned n bit number is A) 0 to 2 <sup>(n-1)</sup> B) 0 to 2 <sup>n</sup> C) 0 to 2 <sup>(n+1)</sup> D) 0 to 2 <sup>n</sup> -1
	b. What are tokens? Explain the various types of tokens with examples. (08 Marks)
	c. Write an algorithm and flow chart to find the solution of a quadratic equation. (08 Marks)
_	PART - B
5	a. Select the right answers in the following:  i) Each case statement in switch is separated by (04 Marks)
	A) Break B) Continue C) Exit D) Goto
	ii) What is the output of the following code?
	main()
	{
	int X;
	print f("% d", X);
	}
	A) Error B) Garbage value C) X D) Zero iii) What is the value of A after execution?
	iii) What is the value of A after execution? main ()
	int $A = 10$ ; $B = 7$ ;
	print f("% d", ++A - B);
	}
	A) 10 B) 9 C) 04 D) None of these
	iv) The value of $   x > 9 &  y! = 3    $ for $x = 11$ and $y = 6$ is
	A) Zero B) 1 C) 2 D) -1
	b. Explain the following with syntax: i) if—else statement ii) Simple if iii) nested if—
	else iv) else if ladder.  (08 Marks)  c. Write a C program using switch statement to perform the following operations between two
	variables. The operations are 1 – addition, 2 – subtraction. 3 – multiplication, 4 – division and print error message for default statement. (08 Marks)
6	a. Select the right answers in the following:
U	a. Select the right answers in the following:  i) A do – while loop is useful when we want to execute the statements within the loop to be executed (04 Marks)
	A) Only once B) At least once C) Atmost once D) None of these ii) Pick the odd one out
	A) $a = a + 1$ B) $a + +$ C) $a + = 1$ D) $a = +1$
	2 of 3

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iii) How many times the statements in loop will executed?
         for (i = 0; i > 1; i + +)
             Statements:
       A) 1 time
                            B) 2 times
                                                  C) Zero times
                                                                        D) Many times
      Which of the following is palindrome?
       A) 1101
                            B) 1234
                                                  C) 565
 b. Explain the following with their syntax: i) for loop ii) while loop iii) Do while
 c. Write a program to check whether a given number is Palindrome or not. Print suitable
                                                                                      (05 Marks)
    statements.
 d. Write a C program to add the digits of any given integer number.
                                                                                      (05 Marks)
a. i) An array is a group of related data that shares a common
                                                                                      (04 Marks)
                            B) Address
                                                  C) Index
                                                                        D) All of these
   ii) Which of the following is valid array?
       A) int a [2] [2] = \{1, 2\}
                                              B) int b [N] = \{1, 2, 3\}
       C) int c [10] = \{1.2, 3, 4, 5, b', ...\} D) int d [2] = \{1, 2, 3\}
  iii) Given int a[2] [2] = \{1, 2, 3, 4\}; what is the element in 2^{nd} row and 1^{st} column?
       A) 1
                            B) 2
                                                  C) 3
                                                                        D) 4
  iv) Number of elements in an array defined by a[2][2][3] is
       A) 7
                            B) 12
                                                 C) 8
                                                                        D) None of these
 b. Write a C program to compute sum of 2 matrices of dimensions (n × n) and output the result
    matrix using suitable statements.
                                                                                      (04 Marks)
    Write a C program to input N integers into a single dimensional array and sort them in
    descending order using Bubble sort technique. Print both given array and sorted array with
    suitable headings.
                                                                                      (08 Marks)
 d. Write a C program to find largest number in a given array of N elements.
                                                                                      (04 Marks)
a. Select the right answers in the following:
    i) The default return type of function is
                                                                                      (04 Marks)
                            B) int
       A) void
                                                  C) char
                                                                        D) float
   ii) Which of the following function prototype is invalid?
       A) int average (int x, int y, int z)
                                              B) float power (float a, float b)
       C) double minimum (float a; float b) C) none of these.

 A function that calls itself is known as

       A) recursive function
                                              B) main function
       C) iterative function
                                              D) none of these
   iv) What happens if actual and formal argument types do not match?
       A) error message will be generated
                                              B) garbage value will be passed
       C) program will not be executed
                                              D) none of these
 b. Write a function 'Prime' that returns 1 if its argument is a prime number and returns zero
    otherwise.
                                                                                      (06 Marks)
 c. Write a C program to compute the factorial of a given number using a function.
                                                                                      (06 Marks)
 d. Write a user defined function to find larger of two numbers.
                                                                                      (04 Marks)
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