Roll No.

BCA-201(N)

B. C. A. (Second Semester) **EXAMINATION, May, 2012**

(New Course)

Paper First

C PROGRAMMING

Time: Inree Hours			[Maximum Marks : 75	
Note	: Atter	npt all questions.	Billion and Abilitis	sa sa sa s
	A State		-A	18
			e Questions)	67 (b)
1. (i)) Ar	Array subscripts in C always start at:		
	(a)	-1	Siddiff sinner	
	(b)	0		
	(c)	1	Mostraphia) i re	
	(d)	Any value		
(ii)	The	pointers can be use	d to achieve:	Cont cost
	(a)	Call by function	But his hear wife	
	(b)	Call by reference	udook ad taam yax.	
	(c)	Call by name	desire to execute	
	(d)	Call by procedure	O vigo estánte	
(iii)	A str	ructure can have:	of them. Wellings	

Pointers as its members

(a)

- (b) Scalar data type as its members
- (c) Structure as its members
- (d) All of the above
- (iv) A string is array of:
 - (a) Single
 - (b) Multi
 - (c) Double
 - (d) None of these
- (v) The bitwise XOR is used to:
 - (a) Complement the desired bits
 - (b) Multiply the numbers
 - (c) Divide the numbers
 - (d) Mask the bits
- (vi) The C language was developed by:
 - (a) Marting Richards
 - (b) Dennis Ritchie
 - (c) Ken Thompson
 - (d) Smith Volt

State True/False:

- (vii) Array name and subscripted variables are different ()
- (viii) Array must be declared before use ()
- (ix) Address of operator can be applied to pointer variables only ()
- (x) Structures cannot be passed to functions ()
- (xi) String can be read or written using the I/O statement ()

(xii) The size of operator determines the memory space required by its operand ()

Fill in the blanks:

- (xiii) A vector is a array.
- (xiv) Whenever an error occurs the function puts () return
- (xv) Pointers allow the direct access of
- (xvi) A pointers variable must be assigned a validbefore using it.
- (xvii) The variables named in a structure are
- (xviii)NULL string is represented by

Section - B

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(Short Answer Type Questions)

Note: Attempt any seven out of ten questions.

- 2. What is a Dynamic Array? How is it created? Give a typical example of use of a dynamic array.
- 3. What is an Array? Give the classification of arrays.
- 4. What do you understand by pointer initialization? Explain with example.
- Describe typical applications of pointers in developing program.
- 6. When do you use pointers to structure? Explain with an example.
- 7. Write down the definition of preprocessor. Explain the role of the C processor.
- 8. What is header file? Explain in brief.

- 9. Explain the following:
 - (i) Multidimentional array
 - (ii) Dynamic memory allocation
- 10. Explain the following:
- (i) Standard library function
 - (ii) Union
- 11. Explain the following:
 - (i) Definition of files
 - (ii) Shift operators

Section - C

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(Long Answer Type Questions)

Note: Attempt any one question.

- 12. (a) Write a C program to generate and print N Fibonacci number.
 - (b) Write a C program to read matrix, find the transpose of a given matrix.
 - (c) Write a C program to check that the input string is a palindrome or not.
- 13. (a) Write a C program to generate the Armstrong number.
 - (b) Write a C program to read two matrix and find the addition of matrix.