S.No.	:	463

BCAT112

No.	of	Printed	Pages	:	06
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Following Paper ID and Rol	INo.1	to be:	filled	in you	ır Ans	wer Bo	ook.
PAPER ID: 1102	Roll No.						

BCA Examination 2018-19

(First Semester)

PROGRAMMING CONCEPT USING 'C'

Time: Three Hours] [Maximum Marks: 100

Note: Attempt all questions.

SECTION'A'

[P. T. O.

(ii)

(a)

(b)

(c)

(d)

&" symbol.

(d)	Theoperator can be used to determine the length of array and structure.
(e)	function can be used to read a single character.
(f)	An immediate exit from the loop can be achieved by astatement.
(g)	Anstorage class can be used to declare global variable known to all the functions in the file.
(h)	C program execution begins from
(i)	Array a[20] will haveelements in it.
(j)	Pointer operators areand
True	and False: $10 \times 1 = 10$
•	y of the do while statement is executed at once.
strcp	by (s1, s2) function copies s2 to s1.
	witch statement, each case should be osed by a parenthesis.
The	printf variable list must be preceded by a "

8. Write a C program to copy the content of a given file say 'a.txt' to another file'b.txt'.

OR

What are preprocessor directives? List the commonly used directives and their uses.

9. Write a program in C to print pyramid using numbers

1
2 3 2
3 4 5 4 3
4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5

OR

Write a program in C to find sum and subtraction of two matrices.

10. What are header files and what are its uses in C programming?

OR

Explain in detail call by value and call by reference with example.

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- 11. Explain the following:
 - (i) feof ()
 - (ii) fseek()
 - (iii) fgets ()
 - (iv) fputs ()
 - (v) ftell ()

OR

What is pointer? How pointer are declared in C programming language? Illustrate with a suitable example.

- (e) The statement int*x[10] will declare a two-dimensional array of 10 columns.
- (f) #DEFINE is a predifined macro.
- (g) Pointers can be multiplied.
- (h) A list of strings can be stored within a two-dimensional array.
- (i) There is a limit on the number of times a function is called.
- (j) Char y='a' is a valid C statement.

SECTION'B'

Note: Answer any three questions:

 $3 \times 10 = 30$

- 2. (a) Explain the basic structure of a 'C' program.
 - (b) Classify operators in C language based on number of operands. Give suitable examples.
- 3. (a) Write a C program that finds the sum of first 50 natural numbers.
 - (b) How does function definition differ from function declaration?

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- 4. (a) What is dynamic memory allocation?
 - (b) Explain break and continue statements using syntax and example.
- 5. (a) What are enumerated data types? Give an example.
 - (b) Write C program to find maximum of two numbers using ternary operator.
- 6. (a) Explain different string manipulation functions with examples.
 - (b) What are the attributes of good programming language?

SECTION'C'

Note: All questions are compulsory. Each question has internal choice. $5 \times 10=50$

7. What is selection sorting? Sort the number "5 1 4 2 8" from lowest to greatest using selection sort.

OR

What is the advantage of switch statement over if-else statement? Write a program in C using switch statement to create a simple calculator that performs addition, subtraction, multiplication and division.