

S.No. : 179

BCA 2103

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21103

Roll No.										
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BCA Examination 2018-2019

(First Semester)

PROGRAMMING CONCEPT USING 'C'

Time : Three Hours]

[Maximum Marks : 60

Note :- Attempt all questions.

SECTION –A

1. Attempt all parts of the following : $8 \times 1 = 8$
- (a) What do you understand by operating system?
 - (b) Differentiate between compiler and interpreter?
 - (c) What is BIOS?
 - (d) Why do we include `<conio.h>` in our program?
 - (e) What do you understand by Tokens?
 - (f) Write the syntax of break and continue?
 - (g) What is Array?
 - (h) What is EOF?

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SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$

- (a) What do you understand by algorithm? Write the essential properties and performance measure of an algorithm.
- (b) Write a program to find out factorial of a number by recursive method.
- (c) Distinguish between the following :
 - (i) While and do while
 - (ii) getc and getchar
 - (iii) Printf and fprintf
 - (iv) Continue and goto
- (d) Write a program for following pattern :

```
      *
     * * *
    * * * * *
   * * * * * * *
  * * * * *
 * * *
  *
```

SECTION - C

3. Attempt any two parts of the following : $5 \times 2 = 10$
- (a) What are the attribute of good programming language.
 - (b) Write a program for multiplication of two matrices where both are input by the user.
 - (c) What do you understand by searching. Write a program to search an element in the array using binary search technique.
4. Attempt any two parts of the following : $5 \times 2 = 10$
- (a) What is pointer? How pointers are declared in C programming language? Illustrate with a suitable example.
 - (b) Write a program for selection sorting to sort these numbers 8, 19, 2, 6, 5, 15, 3.
 - (c) What do you mean by storage classes and explain all the storage classes with syntax.
5. Attempt any two parts of the following : $5 \times 2 = 10$
- (a) Write a program to concatenate two character string without using the function strcat ().
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- (b) Differentiate between call by value and call by reference with suitable example.
 - (c) Explain the meaning and syntax of the following functions.
 - (i) fseek ()
 - (ii) fopen ()
 - (iii) ftell ()
 - (iv) fscanf ()
6. Attempt any two parts of the following : $5 \times 2 = 10$
- (a) Write a program in a structure to read and display the information of all the students in the class.
 - (b) What is a macro and how is it different from C variable name.
 - (c) Write a program to copy the content of one file in to another file.
