

Paper Code : 21309

F-409

**B. C. A. (Second Semester)
EXAMINATION, 2019**

(New Course)

Paper No. BCA—N—204

PROGRAMMING IN 'C'

Time : Three Hours] [Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) What is a data type ? Explain various data types available in 'C' language with syntax and examples. 7
(b) What are various categories of operations available in 'C' language ? Describe any two category operations. 7
2. (a) What is an array ? How many types of arrays are available in 'C' language ? Explain with proper example. 7
(b) Write a program in 'C' language to display tables from 2 to 20. 7

(B-9) P. T. O.

3. (a) Distinguish between procedural and modular structured programming. Explain each with examples. 7
(b) What is recursion ? Write a program to calculate factorial of a number using recursion. 7
4. (a) How are pointer and arrays related ? Describe malloc () and calloc () using pointer. 7
(b) How call-by-reference can be implemented using pointers ? Write a program to swap values of two variables using call-by-reference. 7
5. (a) What is a file ? Write various attributes and operations related to files. 7
(b) What is a macro ? Describe its definition and calling using file concept. 7
6. (a) What is the use of storage classes in 'C' language ? Describe various storage classes with proper examples. http://www.mjpruonline.com 7
(b) What is the use of loop in 'C' language ? Write various available loops in 'C' language and explain their use with examples. 7
7. (a) What is difference between switch and if-else statements ? Write a program in 'C' language using switch statement. 7
(b) Taking suitable examples differentiate between break and continue statement. 7

(B-9)

[3]

8. Write short Notes on any *four* of the following :

$3\frac{1}{2}$ each

- (a) Comma operator
- (b) Dynamic memory allocation
- (c) File appending and deleting
- (d) Nested structure
- (e) Union data structure
- (f) Parameter passing methods
- (g) Pointer arithmetic.

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