

(4)

Code No. : C-195

Roll No.....

Total No. of Sections : 03

Total No. of Printed Pages : 04

**OR**

Explain union and union variable in 'C' language with example.

Q.4 Explain various dynamic memory allocation function with proper example.

**OR**

What do you understand by array of pointer? Explain with example.

Q.5 Write Short notes on following-

- (1) ftell( )            (2) fseek( )            (3) rewind( )  
(4) feof( )            (5) ferror( )

**OR**

What is Command line argument? Explain with example.

---x---

(\*)

Code No. : C-195

Annual Examination - 2019

BCA Part - I

(BCA - 103)

**PROGRAMING IN 'C' LANGUAGE**

Max.Marks : 100

Time : 3 Hrs.

Min.Marks : 40

**Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.**

**Section - 'A'**

**Answer the following very short-answer-type questions in one or two sentences : (2×10=20)**

- Q.1 What is the purpose of main ( ) function?  
Q.2 Explain Unary and binary operators in C?  
Q.3 What is Static Variable in C?  
Q.4 Define 'C' Tokens?  
Q.5 Explain the?: Operator (Conditonal Operators)  
Q.6 What is the scope and storage allocation of global variables?  
Q.7 Explain 'typedef' statement.  
Q.8 Define the use of reference operater (&) and indirection operater in C?

**P.T.O.**

(2)

Code No. : C-195

- Q.9 What is the use of # define?  
Q.10 Explain the syntax and working of the following function related to string :  
(i) Strlen ( ) (ii) Strcmp ( )

**Section - 'B'**

**Answer the following short-answer-type questions with word limit 150-200 : (6 5=30)**

- Q.1 What do you understand by data types? Explain Various data types with its memory allocation.

**OR**

Write a 'C' program to print sum of digits in 3 digit numbers.

- Q.2 What is Call by Value and Call by reference in 'C' programming. Explain with suitable example.

**OR**

Write a program in 'C' to find factorial of a given number using recursion.

- Q.3 What is structure? How do you declare a structure? Explain with example.

**OR**

Explain declaration of "enum" and "enum variable".

- Q.4 Why do we use void pointer? Explain with suitable example.

**OR**

Write a program using Pointer to search smallest number in an array.

- Q.5 What do you mean by 'aryC' and 'aryV' ? Explain its use with example.

(3)

Code No. : C-195

**OR**

Explain the usage of fprintf() and fscanf() functions with suitable example.

**Section - 'C'**

**Answer the following long-answer-type questions with word limit 300-350 : (10 5=50)**

- Q.1 Write short notes on the following-  
(1) getch ( ) (2) getche ( ) (3) put char ( )  
(4) putc ( ) (5) getc ( )

**OR**

Write a C program using if else Ladder to grade student according to following rule :

Marks	Grade
70 to 100	Distinction
60 to 69	I Class
50 to 59	II Class
40 to 49	III Class
0 to 39	fail

- Q.2 What is Storage Class in 'C'. Explain with suitable example.

**OR**

Write a 'C' program to enter any 10 numbers in a single dimension array and print all the number in descending order. Find the smallest number in the array.

- Q.3 Write a program to show how we can pass and return f structure from function?