

Roll No.

Total No. of Sections : 3

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Annual Online Examination 2021

Code No. : A.B.C-193

B.C.A. Part I

PROGRAMMING IN C

BCA-103

[Programming in C]

Time : Three Hours]

[Maximum Marks : 80

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. 1×10=10

1. List any 4 binary operators in C.
2. What are the rules of a naming a variable in C ?
3. Why is the use of continue statement used in C ?
4. Declare a function with that takes two integers as argument and returns an integer pointer.

P. T. O.

Code No. : A.B.C-193

5. What is a nested structure ?
6. Declare a structure for storing the information of a student.
7. What is a void pointer ?
8. What is the use of free() function in C ?
9. What is the use of the function fflush() in C ?
10. Name any 4 library functions of strings.

Section 'B'

Answer the following short answer type questions with word limit 150-200. 4×5=20

1. Explain the meaning of associativity of operators with example.

Or

Write a C program to show the use of one of the relational and one of the logical operators.

2. Write a C program to read a character and print whether that is an upper case, lower case or none.

Or

Write a C program to define a function that will take two integers and return the larger of them.

[2]

Code No. : A.B.C-193

3. What are unions ? Explain with example.

Or

Write a C program to print the length of a string without using library function.

4. Explain the use of Pointers in C.

Or

Write a C program to display swap two integers using call by reference.

5. Explain the following file handling functions :

(i) fopen, (ii) fgetc, (iii) fscanf, (iv) feof, (v) fflush

Or

What is the use of the preprocessor directive #if and #else. Give example programs.

Section 'C'

Answer the following Long Answer Type Questions in about 300-350 words : 10 × 5 = 50

1. Explain all the logical operators in C.

Or

Write a C program to demonstrate the use of conditional operator in C.

[3]

P. T. O.

Code No. : A.B.C-193

2. Write a C program to display the reverse of any integer using a loop.

Or

Explain the difference between call by value and call by reference.

3. Write a C program to add two integer matrices of 2 rows and 3 columns.

Or

Explain the difference structure and union with example.

4. Explain the function malloc() for memory allocation with the help of an example.

Or

Explain the arithmetic operations that can be performed on pointers.

5. Explain the use of command line arguments.

Or

Write a C program to read the contents of a text file.

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[4]

4 / 50