

**Professional Course Examination, 2021**

( 2nd Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

Course : BCA/2/CC/11 (New)

**( Programming in C Lab )**

**( Practical )**

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks for the questions*

SECTION—A

( Marks : 30 )

Answer *any two* questions

1. Temperature of your city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into Centigrade degrees. 15
2. Write a C program to print the Fibonacci series up to  $n$  terms using while loop. 15
3. Write a recursive function program using C to find the factorial value of any number entered through the keyboard. 15
4. Write a program using C to perform binary search for any item in an ordered array and display the position of the item if found. 15

SECTION—B

( Marks : 20 )

Answer *any* **one** question

5. Write a C program to demonstrate functions call by value and call by references. 20
6. Write a program in C to accept lines of text to save into a file and then read from the same file to display the number of alphabets, digits and special characters on the screen. 20
7. Write a C program to find the multiplication of addition of two matrices using two-dimensional array. 20

SECTION—C

( Marks : 25 )

8. Viva voce. 15
9. Practical Record book. 10

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