# 2022

## BCA 1st Semester (CBCS) Examination

### Introduction to Programming

PAPER — CC – 2T

*Full Marks* : 50

*Time* : 2 hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer from **all** the Groups as directed.

### GROUP—A

1. Answer *any* **five** questions :                    2×5=10

    (a) What do you mean by type casting?

    (b) What is enum in C?

    (c) What do you mean by printf( )?

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( *Turn Over* )

(e) Explain the terms 'call by value' and 'call by reference' with suitable examples.  5

(f) Write a C program to calculate the sum of two integers using command line arguments.  5

## GROUP—C

Answer *any* **two** questions :

3. (a) Write a C program to calculate a * b using recursion.  5

   (b) What are the limitations of array?  2

   (c) What is the difference between structure and union in C?  3

4. (a) Write a C program to calculate the length of a string without using library function.  5

   (b) Write a C program to check whether a number is prime or not.  5

5. (a) What are dangling and null pointers?  4

   (b) What do you mean by far pointer, near pointer and huge pointer?  6

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( 2 )

(d) What is the use of macro?

(e) What is the difference between global and local variables?

(f) What do you mean by preprocessor directives in C?

(g) What is ternary operator in C language?

(h) What are the differences between entry controlled loop and exit controlled loop?

## GROUP—B

2. Answer *any* **four** questions :

(a) Explain the different storage classes in C.

5

(b) What is the purpose of break and continue statement in a loop? What are the disadvantages of using recursion?   3+2=5

(c) What do you mean by array of pointer and pointer to an array? Explain with a suitable example.   2+3=5

(d) What is the difference between '=' and '==' symbols? What are the differences between getch( ) and getche( )?   2+3=5

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( Continued )

6. (a) Write a program in C to copy the contents of one file to another file. (Take the file names as an input.) 5

(b) What is dynamic memory allocation? What is the use of malloc( ) function in C? What is the return value of malloc( )? 5

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