Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages: 02

Total No. of Questions: 07

BCA / BSc. (IT) / DCA (Sem. – 1)

PROGRAMMING IN C

Subject Code: BSBC-102/BSIT-102

M Code: 10044

Date of Examination : 12-01-2023

Time: 3 Hrs.   Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer the following:

    a) What are global and local variables?

    b) What is the use of Flowcharts?

    c) What are the advantages of Recursion?

    d) Differentiate between Continue and Goto statements.

    e) What do you mean by Structures in C?

    f) List the various data types used in C.

    g) Briefly describe the use of Pointers in C.

    h) Differentiate between Call by value and Call by reference.

    i) What is the use of Macros?

    j) Write the syntax for function declaration in C.

SECTION-B

2. a) What are the different steps in developing a program? What is the role of debugging?

   b) With the help of a program, explain the handling of Strings in C programs.

3. Describe the following:

   a) Unions

   b) File handling in C

4. What do you mean by Recursion? What is the use of recursion in C programs? Write a program to find the factorial of a number using recursion.

5. a) Describe the structure of a C program with an example.

   b) List the various operators used in C along with their precedence.

6. Write brief notes on:

   a) Difference between While and Do-while loop.

   b) Use of Jump statements in a C program.

7. a) What are Arrays? How are arrays declared and initialized? What is the difference between single and multi-dimensional arrays?

   b) Write a C program to print all the even numbers between 1 and 100.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.