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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.