Roll No. ....
3300   15/20/30/20

DN-04

January 2020
Bachelor of Computer Applications (BCA) Examination

Ist Semester
PROGRAMMING AND PROBLEM SOLVING THROUGH C – I

Time 3 Hours]   [Max. Marks 50

Note : Attempt any two parts from each question. All questions carry equal marks. Assume suitable data, whenever required.

1. (a) Give classification of Programming Language.
    (b) Compare Compiler and Interpreter.
    (c) Draw a flowchart to calculate factorial of given number.

2. (a) Discuss history of C Language.
    (b) What is meant by Identifiers ? How do identifiers differ from keywords ?
    (c) Explain type conversion using suitable example.

3. (a) Write a C program to check whether given number even or odd using conditional operator.
    (b) Compare while and do...while loop.
    (c) Explain various jump statement using suitable programming example.

4. (a) What is Array ? Explain memory map of 1D and 2D Array.
    (b) Write a C program to print largest element of given integer array.
    (c) Explain any three standard library string functions using suitable programming example.

5. (a) What is Structure ? Justify the need of structure. Write a C program to store record of a student and display it.
    (b) Compare function and macro. Write a macro definition to calculate square of given number.
    (c) Write short note on the following :
         (i) Array of Structure.
         (ii) Pragma Directives.

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