09/05/2022

100933

## BCA I Semester (NEP) Degree Examination, March/April - 2022
## COMPUTER SCIENCE
## Programming in C

Time : 3 Hours                                      Maximum Marks : 60

**Instruction :**   *Answer **all** the Sections.*

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### SECTION - A

1.  Answer **all** the questions.  Each question carries **1** mark.          **10x1=10**
    (a)  Who developed C-language ?
    (b)  Define Variable.
    (c)  Write the symbol for Logical AND Operator.
    (d)  Mention any two jump controls.
    (e)  What is String ?
    (f)  Write memory representation of one dimensional array.
    (g)  Define Pointer.
    (h)  What is user defined function ?
    (i)  Which Operator is used to access structure variable or member ?
    (j)  What is the use of Union ?

### SECTION - B

Answer **any 4** questions.  Each question carries **5** marks.          **4x5=20**

2.  Explain various fundamental datatypes available in C ?

3.  Write a C-program to calculate simple and compound interest.

4.  With syntax and example explain declaration of one dimensional array.

5.  Write advantages of user defined functions.

6.  Describe general syntax and example of structure in C.

7.  Differentiate between while and do-while looping.

## SECTION - C

Answer **any 3** questions.   Each question carries **10** marks.                    **3x10=30**

8.    Explain structure of a C program with example.

9.    (a)    Write a C program to find biggest of three numbers.

      (b)    Explain relational operators with example.

10.   Explain various string handling functions available in C language.

11.   What is the purpose of Pointer ?   Explain how to declare, initialize and access a pointer variable.

12.   Differentiate Structure and Union.

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