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Council for Technical Education and Vocational Training Office of the Controller of Examinations Sanothimi, Bhaktapur

Regular/Back Exam-2078, Bhadra

Program: Diploma in Computer Engineering Full Marks: 80
Year/Part: I/I (2018 New Course) Pass Marks: 32

Subject: Computer Programming in C Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Five questions.

- 1 a What is programming language? Explain assembler, [2+6] compiler and interpreter in brief.
 - b Define the terms Variable, Constant, keyword and preprocessor directive. [8]
- a What is data type? Explain any four basic data types [2+6] along with its memory size and range.
 - b What do you mean by operator? Explain various types of [2+6] operators used in C on the basic of operation.
- 3 a Write a program to find roots of quadratic equation. [8] $(ax^2 + bx + c = 0) / 41/72 = (1 + 1)/2 = (4ac)/2a$
 - b Differentiate between while and do-while loop. Write a [3+5] program to find sum of digits of given number.
- a What is array? Explain any four string handling functions [2+6] in brief.
 - b Write a program in C to arrange any ten numbers in [8] ascending order. (website:-https://www.arjun00.com.np)
- a Explain call by value and call by reference with suitable [8] examples.
 - b Define the terms function and recursion. Write a program [2+6] in C to find the factorial of an entered number Using recursion
- 6 a Differentiate between structure and Union with example. [8]
 - b Write short notes on : (Any Two) [2x4=8]
 - i) File opening modes
 - ii) Formatted Input / Output function
 - iii) Pointer

Good Luck!

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