

( website:- arjun00.com.np)

Council for Technical Education and Vocational Training

**Office of the Controller of Examinations**

Sanothimi, Bhaktapur

**Regular/Back Exam-2075, Falgun/Chaitra**

**Program: Diploma in Information Technology/  
Computer Engineering**

**Year/Part: I/I (2008+2010+2018)**

**Subject: Computer Programming in C**

**Full Marks: 80**

**Pass Marks: 32**

**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? Explain different types of language translators. [2+6]  
b) Define algorithm and flowchart. Write an algorithm and draw a flowchart to find the greater number among any two numbers. [2+6]
2. a) Define keywords and variables with examples. Write rules for naming variables. [4+4]  
b) Explain different types of operators in C with examples. What is an escape sequence? [6+2]
3. a) Explain operator precedence and associativity. Write a program in C to find the simple interest. [4+4]  
b) What is control structure? Explain all 3 types of loop structure with proper syntax. [2+6]  
( website:- arjun00.com.np)
4. a) What is control structure? Write a program in C to find if given number is prime number or not using a function. [2+6]  
b) Define Array. What is a string? Explain in brief any 4 string handling functions with examples. [2+2+6]
5. a) Differentiate between structure and union with example. [8]  
b) Write a program in C to ask any ten numbers and arrange them in ascending order. [8]
6. a) What are the different modes of opening file? Explain. Write a program in C to read the content of file named "info.txt". [4+4]  
b) Write short notes on (Any Two) [4+4]

i. Pointers

ii. break and continue statements

iii. Dynamic memory allocation

**Good Luck**

( website:- arjun00.com.np)