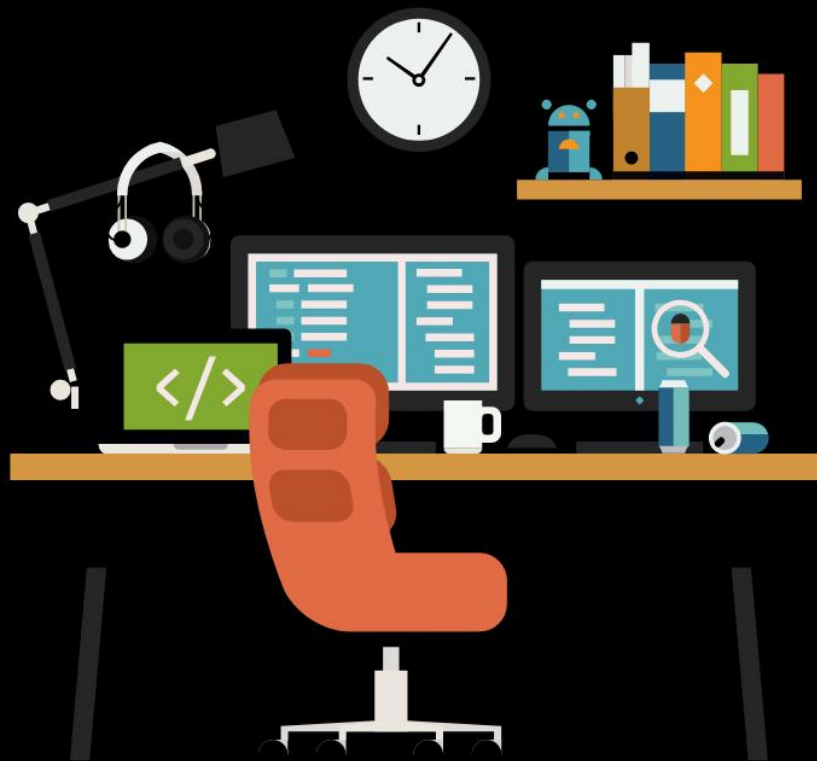


CTEVT

# Question Bank of



1st/ 3rd  
Sem

# C Programming

[www.arjun00.com.np](http://www.arjun00.com.np)



**Regular/Back Exam-2080, Baishakh / Jestha**

**Program: Diploma in Computer Engineering**

**Full Marks: 80**

**Year/Part: I/I (2018)**

**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*

**Attempt Any Five questions.**



[www.arjun00.com.np](http://www.arjun00.com.np)

1. a) What is Programming Language? Differentiate between compiler and Interpreter with an example. [2+6]  
b) Explain the keywords used in C. Write a program in C to input three number and print the Larger number. [3+5]
2. a) How do we declare and initialize variable? Write down the rules for naming variables. Write a program to input two numbers and find the quotient and remainder. [2+2+4]  
b) What is an escape sequence? Explain different types of operators in C with examples. [2+6]
3. a) Differentiate between while loop and do while loop with example. [8]  
b) What is for loop? Write a program to find the sum of all natural number from 1 to 20. [2+6]
4. a) What is function? Write down the a advantages of function? Write a program to input a number and check if it is even or odd using function. [2+6]  
b) What do you mean by recursive function? WAP in C to input a number and calculate the factorial of that number. [2+6]
5. a) What is an array? Write a program to sort n numbers in an array in ascending order. [2+6]  
b) What is string? Explain string handling functions with examples. [2+6]
6. a) Explain structure with its syntax. Write a program using structure to display name, address and salary of two employees. [2+6]  
b) Write short notes on : **(Any Two)** [2x4=8]
  - i) Break and continue statements
  - ii) Dynamic memory allocation
  - iii) Modes of opening files

**Good Luck !**





Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur  
**Regular/Scholarship Exam-2080, Bhadra**

**Program:** Diploma in IT / Computer Engg.

**Full Marks: 80**

**Year/Part:** II/I (2022)

**Pass Marks: 32**

**Subject:** C Programming

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**Time: 3 hrs.**

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

**Attempt Any Eight Questions.**



[www.arjun00.com.np](http://www.arjun00.com.np)

1. Define Algorithm and Flowchart with an example. [5+5]  
Differentiate between compiler and Interpreter.
2. What is data types? Explain about the formatted and unformatted input/output functions with examples. [4+6]
3. Define Operator. Mention about the types of operators used in C with suitable example. [2+8]
4. What is looping? Differentiate between while loop and do ..... while loop with example. [2+8]
5. What is switch statement? Write a program in C to determine greatest number among three numbers. [2+8]
6. Define an array. Write a program in C to input 10 integer number in an array and calculate the average number among them. [2+8]
7. Define function. What are the advantage of using function? How can we declare function? Write down its syntax. [2+2+6]
8. What is structure? Write a program in C to store records of 20 employee and display the record in appropriate format. (data members of the employee are id, name and salary) [2+8]
9. What are the different modes of opening file? Write a program in C to write the character into a text file "CTEVT.txt" enter by the user. [3+7]
10. Write short notes on : **(Any Two)** [2x5=10]
  - a) Pointer
  - b) Dynamic memory allocation
  - c) Recursive function

**Good Luck !**

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 marks.



[www.arjun00.com.np](https://www.arjun00.com.np)

**Attempt Any Five questions.**

- 1 a What is programming language? Explain assembler, compiler and interpreter in brief. [2+6]  
b Define the terms Variable, Constant, keyword and pre-processor directive. [8]
- 2 a What is data type? Explain any four basic data types along with its memory size and range. [2+6]  
b What do you mean by operator? Explain various types of operators used in C on the basis of operation. [2+6]
- 3 a Write a program to find roots of quadratic equation. [8]  
 $(ax^2 + bx + c = 0 \quad r_1 r_2 = (-b \pm \sqrt{b^2 - 4ac})/2a)$   
b Differentiate between while and do-while loop. Write a program to find sum of digits of given number. [3+5]
- 4 a What is array? Explain any four string handling functions in brief. [2+6]  
b Write a program in C to arrange any ten numbers in ascending order. [8]  
( website :- <https://www.arjun00.com.np> )
- 5 a Explain call by value and call by reference with suitable examples. [8]  
b Define the terms function and recursion. Write a program in C to find the factorial of an entered number Using recursion [2+6]
- 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 !**



Program: Diploma in Computer Engineering / Information Technology Full Marks: 80

Year/Part: I/I (New+ Old Course) Pass Marks: 32

Subject: Computer Programming in C & C- Programming. Time: 3 hrs

Candidates are required to give their practicable. The figures in the margin



[www.arjun00.com.np](https://www.arjun00.com.np)

Attempt Any Eight Questions

1. Define algorithm and flowchart with example. Differentiate between compiler and Interpreter. [5+5]
2. What do you mean by data type in C? Mention about the types of operators used in C with suitable examples. [3+7]
3. Write a syntax of switch statement. Write a program in C to display respective day depending upon the number entered i-e input 1 for Sunday ..... 7 for Saturday using control statement. [2+8]
4. Differentiate between while and do while loop with reference to their syntax. WAP in C to read number from keyboard and check if it is palindrome or not. [3+7]
5. What do you mean by break & continue statement? WAP in C to input a number & calculate the factorial of that number using recursive function. Website :- <https://www.arjun00.com.np> [3+7]
6. Define constant and keyword. Explain about nested loop statement with suitable example. [4+6]
7. Define a array. WAP in C to calculate the sum of five different numbers with using array. [2+8]
8. Compare structure & union with example. WAP in C using structure to display the name, address, roll no., marks & gender. [3+7]
9. Write short notes on: (Any Two) [2\*5=10]
  - a) Pointer
  - b) String handling function
  - c) Recursive function

**Good Luck!**



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 answers as far as practicable. The figures in the margin...



[www.arjun00.com.np](http://www.arjun00.com.np)

**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)