

Tribhuvan University  
Institute of Science and Technology  
2081



Bachelor Level / First Year/ First Semester/ Science  
**Computer Science and Information Technology (CSC110)**  
(C Programming)  
**(OLD COURSE)**

Full Marks: 60  
Pass Marks: 24  
Time: 3 hours.

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

**Section A**

**Attempt any TWO questions.**

(2×10=20)

1. Explain different forms of if statements with example of each. Write a program to check wheather a number entered is divisible by both 5 and 7. (6+4)
2. Define array. Why do ee need array? Write a program to multiply two matrices. (1+2+7)
3. What is structure? How is it differet from array? Create a structure named **student** with **name**, **address**, and **age** as its members. Write a program using this structure to read data of 10 students and display data of those students who live in "Kathmandu". (1+2+7)

**Section B**

**Attempt any EIGHT questions.**

(8×5=40)

4. Explain algorithm with example. What are the benefits of using algorithms? (3+2)
5. What is identifier? Explain rules for valid identifiers with example. What is keyword? (1+3+1)
6. What do you mean by formatted I/O? Explain. (5)
7. Write a program to find sum of first n odd numbers. (5)
8. Write a program to find sum of two integers using your own function. (5)
9. Define Pointer. Write a program to illustrate passing pointers to function. (1+4)
10. Explain different file opening modes. (5)
11. Write a program to draw an ellipse using graphics function. (5)
12. Write short notes on: (2×2.5=5)
  - a) Problem analysis
  - b) Increment and decrement operator