

Tribhuvan University
Institute of Science and Technology
2068

Bachelor Level/ First Year/ First Semester/ Science
Computer Science and Information Technology (CSc. 102)
(Fundamental of Computer Programming)

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

*Candidates are required to give their answers in their own words as far as practicable.
All questions carry equal marks.*

Attempt all questions.

1. Write an algorithm and flow chart to determine whether a given integer is odd or even and explain it.
2. How can you declare the variable in C? Explain with example.
3. Write a program to find the factorial of a given integer.
4. Explain switch statement with example.
5. Write a program to find the largest and smallest among the given elements in array.
6. Explain the user-defined functions and its type with example.
7. Write a program to accept numbers and sort them with using pointer.
8. Explain the passing structure to function with example.
9. Write a program to accept any number and print the sum of the number up to a single digit through recursive function.
10. Explain the pointer to structure with example.

OR

Write short notes on:

- a) Dynamic memory allocation
- b) Opening and closing file