

Tribhuvan University
Institute of Science and Technology
2081
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Bachelor Level / First Year/ First Semester/ Science
Computer Science and Information Technology (CSC115)
(C Programming)
(NEW 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. List different types of operators and explain any four of them. [2+8]
2. What are the characteristics of array? Write a program to input age of 500 persons and display the following [2+8]
 - a) Average age
 - b) Age between 25 to 30
3. Differentiate between library function and user defined function. Write a program to swap two values using call by reference concept. [2+8]

Section B

Attempt any EIGHT questions

[8×5=40]

4. Explain the basic structure of C Programming. [5]
5. Describe different formatted input and output functions. Why do we use them? [4+1]
6. Write a program to display first 50 prime numbers. [5]
7. Write a program to display the following series up to 25 terms but do not print the 7th term. 2×3, 3×5, 4×7, 5×9... [5]
8. Demonstrate the use of recursive function with a suitable example. [5]
9. Create a structure called STUDENT with data members SID, name, address, CGPA. Write a program to initialize the value of 100 students and display the information of those students whose address is "KTM" and CGPA is between 3.5 to 4. [5]
10. Explain different file opening modes. [5]
11. Write a program to draw two shapes of your choice using graphics function. [5]
12. Write short notes on: [2×2.5=5]
 - a) Global variable
 - b) Debugging