Tribhuvan University
Institute of Science and Technology
2080
✡

Bachelor Level / First Year/ First Semester/ Science   Full Marks: 60
Computer Science and Information Technology (CSC110)   Pass Marks: 24
(C Programming)   Time: 3 hours.
(OLD COURSE)

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

Section A

Attempt any TWO questions.   [2×10=20]

1. Why do we need multidimensional array? How array is passed in function? Write a program to sort the given array in decending order.   [2+2+6]

2. Describe the features of structured programming. Write a program to create a structure named "Movie" with data member movie_name, genre and released_year. Create a function to take input of 10 movies and print those movies which are released in 2020 in different function.   [4 + 6]

3. Differentiate between printf() and fprintf(). Write a program to check whether the entered number is prime or not.   [2+8]

Section B

Attempt any EIGHT questions.   [8×5=40]

4. What are the basic data types associated with C? Explain.   [5]

5. Write a program to reverse the given integer using recursion.   [5]

6. Illustrate the use of switch statement with example.   [5]

7. Write a program to find the transpose of a matrix.   [5]

8. List any two graphics functions with example.   [5]

9. Write a program to find the sum of elements in the array.   [5]

10. Define dynamic memory allocation. Describe about chain of pointers.   [2 + 3]

11. Write a program to generate the multiplication table of given integer.   [5]

12. Why do we need control statement? Describe with suitable example.   [5]