

April 2025
B.A./B.Sc.
Second Semester
MINOR – 2
COMPUTER SCIENCE
Course Code: CSN 2.11
(Programming Fundamentals Using C)

Total Mark: 50

Pass Mark: 20

Time: 2 hours

I. Answer three questions, taking one from each unit.

UNIT-I

1. (a) Explain the basic structure of a C program. 6
(b) Define symbolic constants. Write a program that illustrates the use of symbolic constants. 1+3=4
(c) Explain any two mathematical functions in C. 2
2. (a) Explain the logical operators in C. 6
(b) Explain the different data types in C. 6

UNIT-II

3. (a) Explain the goto statement in C. 3
(b) Explain the different iterative loops in C. 9
4. (a) Write a program that determines whether a number is a palindrome or not. 6
(b) Write the syntax of if-else-if ladder control structure. Write a program that illustrates the use of this control structure. 2+4=6

UNIT-III

5. (a) Write any two advantages and any two disadvantages of using a pointer variable. 4
(b) Define a function. Explain the syntax of a user-defined function. Write a program that illustrates the use of user-defined function in a program. 1+3+4=8

6. (a) Write a program to demonstrate student structure data type to read and display details of a student containing name, age and class of the student. 6
- (b) Write any three advantages and any three disadvantages of structure data type. 6

II. Answer any two of the following questions.

7. What are identifiers in C? Write down the rules of naming identifiers. Explain type casting in C. 1+3+3=7
8. Explain any four character built-in functions in C. Write a program that generates a series of first n natural numbers. 4+3=7
9. Write a program that creates a user-defined function in which an array is passed as parameter to the function. Write the syntax of union data type definition. 5+2=7
-