

April 2025
B.A./B.Sc.
Second Semester
MAJOR – 2
COMPUTER SCIENCE
Course Code: CSM 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 C character set. 6
(b) Explain the C keywords. 6
2. (a) Explain the relational operators in C. 6
(b) Write the syntax of conditional operator. Write a program that determines the greatest of three numbers using conditional operator. 2+4=6

UNIT-II

3. (a) Explain the break and continue statements in C. 6
(b) Explain switch control structure. 6
4. (a) Explain any two string built-in functions in C. 6
(b) Write the syntax of a 2D array. Write a program that creates transpose of a matrix using 2D array. 1+5=6

UNIT-III

5. (a) Explain the pointer-to-pointer variable. 4
(b) Explain the call by value and call by reference methods of calling a user-defined function. 8
6. (a) Write a program that checks whether a number is a prime number or not by creating a user-defined function. 6
(b) Write the differences between structure and union data types. 6

II. Answer any two of the following questions.

7. Explain the various input/output built-in functions in C. Explain the two types of comments in C. 5+2=7
 8. Write a program that finds the sum of digits of a number. Write the differences between while and do-while loops. 5+2=7
 9. Write the advantages of a pointer variable. Write the different arithmetic operations on pointer variable. 3+4=7
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