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SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025

COMPUTER SCIENCE

CSC2CJ101– FUNDAMENTALS OF PROGRAMMING (C LANGUAGE)

2024 Admission onwards

Maximum Time: 2 Hours | **Maximum Marks: 70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Define tokens in C and list its types.
2	What are bitwise operators? Give an example.
3	What is operator precedence? How does it affect expressions?
4	Write a simple C program to read and print a character.
5	Differentiate between if and switch statements.
6	What are the differences between arrays and pointers?
7	What is the use of recursion? Provide an example.
8	What are command-line arguments in C?
9	Explain the register storage class with an example.
10	Define C language and mention its importance.

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Explain the different types of operators used in C.
12	How do break and continue statements work in loops? Give examples.
13	Write a C program to find the factorial of a number using recursion.
14	Explain how a two-dimensional array is stored in memory.
15	Write a program to concatenate two strings without using built-in functions.
16	Explain the scope, visibility, and lifetime of variables in C.
17	What is the role of pointers in memory management?
18	Discuss the differences between structures and unions.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Explain function categories and return types with examples.
20	Discuss the significance of pointers in C and explain pointer arithmetic in C.