Reg. No. | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.
(For those admitted in June 2024 and later)

PROGRAMME AND BRANCH: B.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART - III	CORE-1	U24CS101	C PROGRAMMING

Date & Session: 23.04.2025/AN **Time : 3 hours** **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which of the following is a valid C token? a) Keyword b) Variable c) Operator d) All of the above
CO1	K2	2.	Which operator is used to get the remainder of a division operation in C? a) + b) * c) % d) /
CO2	K1	3.	Which format specifier is used to read a character input in C? a) %c b) %d c) %s d) %f
CO2	K2	4.	Which looping statement is called Exit Control Loop? a) while b) for c) do-while d) if
CO3	K1	5.	Which jump statement is used to terminate a loop? a) goto b) continue c) break d) return
CO3	K2	6.	What is the correct syntax to declare a two-dimensional array in C? a) int arr[][]; b) int arr[3][3]; c) int arr[3,3]; d) array int[3][3];
CO4	K1	7.	Which function is used to copy one string to another in C? a) strcat() b) strcpy() c) strlen() d) strcmp()
CO4	K2	8.	Which keyword is used to define a union in C? a) struct b) class c) union d) typedef
CO5	K1	9.	What is the keyword used to define a structure in C? a) struct b) union c) class d) enum
CO5	K2	10.	Which of the following is the correct way to declare a pointer to an integer in C? a) int ptr; b) int *ptr; c) ptr int; d) *int ptr;
Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)**
CO1	K3	11a.	Explain about data types in C Programming. **(OR)**
CO1	K3	11b	Write a C program to read various types of user input, such as integers, floating-point numbers, and strings.
CO2	K3	12a.	Demonstrate If-else statements with suitable examples. **(OR)**
CO2	K3	12b	Identify how while loop handles user input and controls the flow of execution.
CO3	K4	13a.	Define one-dimensional and two-dimensional arrays in C. **(OR)**
CO3	K4	13b	Write a C program to find the factorial of a number using recursion.

CO4	K4	14a.	What is a structure in C? Explain initialization and comparison of structure variables. **(OR)**
CO4	K4	14b	Write a C program to store and display hotel details (name, address, grade, rent).
CO5	K5	15a.	Define pointers and pointer expressions in C. **(OR)**
CO5	K5	15b	Write a C program to read and print a file's content.

Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Make use of arithmetic, relational, logical, and bitwise operators in your code to achieve specific outcomes. **(OR)**
CO1	K3	16b.	Utilize getchar and putchar functions to handle character input and output with suitable example.
CO2	K4	17a.	Describe decision-making and looping statements: while, do-while, for, jumps in loops. **(OR)**
CO2	K4	17b.	Write a C program to generate the Fibonacci series.
CO3	K4	18a.	Explain multi-dimensional arrays in C and discuss how they are stored in memory with an example. **(OR)**
CO3	K4	18b.	Write a C program for matrix multiplication.
CO4	K5	19a.	Appraise the impact of using nested structures in C programming on data representation and access. **(OR)**
CO4	K5	19b.	Differentiate between structures and unions in C.
CO5	K5	20a.	Criticize how does pointer to a pointer relate to structures? **(OR)**
CO5	K5	20b.	Write a C program to copy content from one file to another.