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**G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.****UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.**

(For those admitted in June 2023 and later)

**PROGRAMME AND BRANCH: B.Sc., ELECTRONICS**

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART - III	ELECTIVE GENERIC - I	U23EL1A1	C PROGRAMMING

**Date & Session: 24.04.2025/AN****Time: 3 hours****Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – A (10 X 1 = 10 Marks)</b> <b>Answer ALL Questions.</b>
CO1	K1	1.	C is _____ level language. a) High                      b) Low                      c) Middle                      d) Machine
CO1	K2	2.	How many keywords are there in C Language? a) 30                      b) 22                      c) 32                      d) 36
CO2	K1	3.	What is the purpose of the 'if' control structure in c? a) Looping                      b) Decision making c) Function declaration                      d) Error handling
CO2	K2	4.	What is the result of the expression 5>3 && 4<6 in C? a) True                      b) False                      c) 0                      d) 1
CO3	K1	5.	An array Index starts with? a) 0                      b) 1                      c) 2                      d) 2
CO3	K2	6.	Which is an indirection operator from the following? a) &                      b) *                      c) =?                      d) =>
CO4	K1	7.	Which of the following has the same syntax? (1) Structure                      (2) Union                      (3) Array                      (4) Pointer a) (1) and (2)                      b) (3) and (4)                      c) (1),(3) and (4)                      d) (1) and (3)
CO4	K2	8.	What is the main difference between structure and union? a) There is no difference                      b) Union is faster c) Union takes less memory                      d) Structure is faster
CO5	K1	9.	The data type of file pointer is_____. a) int                      b) double                      c) Void                      d) FILE
CO5	K2	10.	Specify the two library functions to dynamically allocate memory. a) malloc() and memalloc()                      b) mllloc() and memalloc() c) malloc() and calloc()                      d) memalloc() and faralloc()
Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – B (5 X 5 = 25 Marks)</b> <b>Answer ALL Questions choosing either (a) or (b)</b>
CO1	K3	11a.	Illustrate about Features of C Language. <b>(OR)</b>
CO1	K3	11b.	Categorize the operators used in C language.
CO2	K3	12a.	Interpret the Concept of goto statement. <b>(OR)</b>
CO2	K3	12b.	Categorize the Loops used in C language.

CO3	K4	13a.	Define an array. How to initialize one-dimensional array? Explain with suitable examples. <b>(OR)</b>
CO3	K4	13b.	Discuss the difference between Array and structure.
CO4	K4	14a.	Analyze the concept of array of structure. <b>(OR)</b>
CO4	K4	14b.	Comment on the Union bit fields.
CO5	K5	15a.	Assess the Compiler control directives. <b>(OR)</b>
CO5	K5	15b.	Interpret the function of file inclusion.

Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – C (5 X 8 = 40 Marks)</b> <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b>
CO1	K3	16a.	Discuss in detail about C data types. <b>(OR)</b>
CO1	K3	16b.	Asses any five operators used in C language.
CO2	K4	17a.	Summarize the concept of if, if .... Else & nested if Statement. <b>(OR)</b>
CO2	K4	17b.	Comparison between the Three loops, for, while, do .... While.
CO3	K4	18a.	Elaborate of multidimensional arrays in C. <b>(OR)</b>
CO3	K4	18b.	Make use of the dynamic memory allocation with necessary program.
CO4	K5	19a.	Analyze the initialization and declaration of structure variables. <b>(OR)</b>
CO4	K5	19b.	Enumerate the differences between unions, structures and arrays.
CO5	K5	20a.	Assess the syntax for opening and closing a file with various modes. <b>(OR)</b>
CO5	K5	20b.	Evaluate the formatted I/O functions with examples.