Reg. No.

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

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., INFORMATION TECHNOLOGY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART III	CORE-1	U23IT101	PROGRAMMING IN C

Date & Session: 09.11.2024 / FN   **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 is correct with respect to the size of the data types? a) char > int > float b) int > char > float c) char < int < double d) double > char > int
CO1	K2	2.	Which is valid C expression? a) int my_num = 100,000; b) int my_num = 100000; c) int my num = 1000; d) int $my_num = 10000;
CO2	K1	3.	If array is of int type all values are _____ by default. a) NULL b) 0 c) 1 d) -1
CO2	K2	4.	Which datatype can accept the switch statement? a) int b) float c) double d) string
CO3	K1	5.	Which of the following function declaration is illegal? a) int 1bhk(int); b) int bhk(int); c) int hk(float); d) float bhk(int);
CO3	K2	6.	The value obtained in the function is given back to main by using _____ keyword. a) static b) case c) new d) return
CO4	K1	7.	What is the size of a C structure? a) C structure is always 128 bytes b) Size of C structure is the total bytes of all elements of structure c) Size of C structure is the size of largest element d) Size of C structure is the size of smallest element
CO4	K2	8.	What will happen when the structure is declared? a) it will not allocate any memory b) it will allocate the memory c) it will be declared and initialized d) all elements will be initialized to NULL.
CO5	K1	9.	Prior to using a pointer variable it should be ____. a) Declared b) Initialized c) Both declared and initialized d) copied
CO5	K2	10.	In order to fetch the address of the variable we write preceding _____ sign before variable name. a) Percent(%) b) Comma(,) c) Asterisk(*) d) Ampersand (&)
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.	Demonstrate the use of constants and variables in C. **(OR)**
CO1	K3	11b.	Show the basic structure of C program.

Course Outcome	Bloom's K-level	Q. No.	
CO2	K3	12a.	Demonstrate If-else statement in C.
			(OR)
CO2	K3	12b.	Implement for loop in a C program.
CO3	K4	13a.	Examine the elements of User Defined functions in C.
			(OR)
CO3	K4	13b.	Inspect function call in C.
CO4	K4	14a.	Compare and contrast Structures and Unions in C.
			(OR)
CO4	K4	14b.	Analyze Arrays within structures in C.
CO5	K5	15a.	Appraise accessing a variable through its pointer.
			(OR)
CO5	K5	15b.	Evaluate a Pointer expression in C of your own.

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 different Data Types in a C program. Explain.
			(OR)
CO1	K3	16b.	Apply arithmetic and relational operators in C.
CO2	K4	17a.	Compare while and do..while loop in C.
			(OR)
CO2	K4	17b.	Analyze different String manipulation functions in C.
CO3	K4	18a.	Examine any two categories of functions in C.
			(OR)
CO3	K4	18b.	Investigate recursive functions in C.
CO4	K5	19a.	Assess Array of Structures in C.
			(OR)
CO4	K5	19b.	Appraise Declaring Structure variable and accessing Structure members in C.
CO5	K5	20a.	How will you use Pointers to access an integer array in C? Assess.
			(OR)
CO5	K5	20b.	Assess the usage of pointers within function in C.