Time: 2.30 Hours   **Date -** 1 3 DEC 2023   **Max. Marks: 60**

"Verify the Course Code and check whether you have got the Correct Question Paper"

N.B.
1. Attempt all questions.
2. Figures to the right indicate full marks
3. Assume suitable data if necessary and state it clearly
4. Use of Non-Programmable Calculator and Data Sheet is allowed

Q1	Attempt any TWO	CO	B.T. Level	Marks
	A. What is an operator? List all the operators and explain any two of them.	CO3	K2	06
	B. Write a program to check the given integer is positive, negative or zero using conditional operator	CO3	K1	06
	C. Write a program to swap values of two variables without using a third variable.	CO1	K1	06
Q2	Attempt any TWO	CO	B.T. Level	Marks
	A. Explain switch-case statement with syntax and example.	CO3	K2	06
	B. Write a program to check whether a given number is prime number or not.	CO1	K3	06
	C. Write a program to merge two unsorted arrays.	CO2	K3	06
Q3	Attempt any TWO	CO	B.T. Level	Marks
	A. Differentiate between call by value and call by reference parameter passing techniques with examples.	CO4	K2	06
	B. Write a program to find the factorial of a number using recursion.	CO4	K3	06
	C. Write a program to sort the elements of an array by passing it as function argument.	CO3	K3	06
Q4	Attempt any TWO	CO	B.T. Level	Marks
	A. What is a structure? How the structure members are initialized?	CO3	K2	06
	B. Create a structure named **book** with **name, author,** and **publisher** as its members. Write a program using this structure to read data of 50 books and display name of those books published by a specific publisher.	CO5	K3	06
	C. Write a program to append a string at the end of another string using pointers.	CO5	K3	06
Q5	Attempt any TWO	CO	B.T. Level	Marks
	A. Write short note on: Bit field notation in structure.	CO3	K2	06
	B. Write a program to copy contents of a file into another file.	CO5	K3	06
	C. Define a macro to check whether a given number is odd or even. Illustrate the use of this macro in a program.	CO2	K3	06

Note: CO: Course Outcome;   B.T. Level: Bloom's Taxonomy Level