

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			
a	Explain the terms algorithm, pseudocode and program.	CO1	Understand	<b>4 x 5 = 20</b>
	or			
b	What is flowchart? Explain the elements of flowchart with the help of suitable diagram.	CO1	Understand	
	or			
c	Define branching statements in C. Explain conditional branching and unconditional branching statements.	CO2	Remember	
	or			
d	Explain the concept of loop in C. Why do we use loops in C? Also write some advantages of using loops in C.	CO2	Understand	
	or			
e	Explain array of Strings in C using memory block diagram. Illustrate it with the help of a program.	CO3	Understand	
	or			
f	What are the advantages and disadvantages of arrays in C?	CO3	Understand	
	or			
g	Discuss about pointers. With the help of a program explain the concept of pointers in C.	CO4	Understand	
	or			
	Explain the concept of structure pointer in C.	CO4	Understand	
<b>Section II</b>				
	<b>Long Answer type questions.</b>			
2	Write a program in C to take age as input from user and display the output whether he/she is eligible to vote or not. (Condition for voting: age >= 18)	CO2	Apply	<b>3 x 10 = 30</b>
	or			
3	Differentiate between For, while and do...while loop in C.	CO2	Analyze	
	or			
4	Write a program in C to find the sum of 3 given integer using the concept of function.	CO3	Apply	
	or			
5	What are the types of function? Explain built-in function and user defined function with the help of an example.	CO3	Understand	
	or			
6	How do we read and write the data to the text file?	CO4	Understand	
	or			
	List the file operations used in C. Explain the functions used to perform the file operations.	CO4	Analyze	
<b>Section III</b>				
	<b>Application based questions</b>			
7	Given a list of elements: {1,7,13,24,33,72,105,118,132,193}. Find the position of a given key element 7 using binary search algorithm.	CO3	Evaluate	<b>1 x 20 = 20</b>
	or			
	Reframe the concept of Array and its types. Write a C program to insert and print the elements in 1-D and 2 -D array.	CO3	Evaluate	

**COURSE OUTCOME**

CO1 Students will learn about fundamentals of computer and programming language, draw flow chart to solve given problem logically and develop algorithm to solve given program.

CO2 Students will be able to choose the loops and decision-making statements to solve the problem.

CO3 Students will be able to understand the concepts of function, array, pointer and structure.

CO4 Students will be able to Implement file Operations in C programming for a given application.