MAJOR 1-PROBLEM SOLVING C
I YEAR SEM II-QUESTION BANK

Q.NO	QUESTIONS	Marks	BL	CLO	PLO	PI CODE
	UNIT-I					
	SECTION-A					
1.	Illustrate Block diagram of a computer and functions of a Computer?	7	4			
2.	Discuss about data types in 'C'?	7	5			
3.	(i). Explain the different types of operators used in 'C'. (ii)Write a C program to check the integer is Palindrome or not.	3+4	1			
4.	Describe the structure of a C program with an example	3+4	1			
	SECTION-B					
1.	Distinguish between an algorithm and a flowchart	3	2			
2.	List the various symbols used to draw flowchart.	3	1			
3.	Define an Algorithm	3	1			
4.	Analyze Increment and Decrement Operators with an example.	3	4			
	UNIT-II					
	SECTION-A					
1.	Explain in detail the While and Do…While looping statements in C with suitable examples.	7	2			
2.	Discuss the various Conditional Branching Statements used in C with its syntax and flow diagram	4+3	2			
3.	Explain the importance of the following Jumping statements with example. (i). the break statement (ii). the continue statement (iii). the goto statement	3+2+2	3			

4.	Write a C program for the following: (i). To generate the first n numbers in a Fibonacci series. (ii). To find the factorial of a given number	4+3	1			
	SECTION-B					
5.	Differentiate the switch and nested-if statement	3	2			
6.	Show the differences between while and do-while statements.	3	3			
7.	Show the general form of if – else – if statement.	3	3			
8.	Provide the significance of break statement in loops.	3	2			
	UNIT-III					
	SECTION-A					
1.	Write a C Program to take 5 values from the user and store them in an array	7	1			
2.	(i) Write a C program to strcpy ( ) function. (ii) Compare and contrast gets() and puts().	3+4	5			
3.	Write a C program to check whether a given number is Armstrong number or not	7	5			
4.	Explain about various string handling functions with an example.	7	4			
	SECTION-B					
1.	How to initialize a string? Give an example	3	6			
2.	List out the advantages of Arrays.	3	1			
3.	What is the role of strrev( ) function?	3	3			
4.	What are the different ways of initializing array?	3	2			
	UNIT-IV					
	SECTION-A					
1.	Apply a recursive function in C for reverse a sentence.	7	3			
2.	Summarize of storage classes with respect to various parameters	7	5			

	storage location, initial value, lifetime and linkage					
3.	Write about (i)pointers And array (ii) pointers and functions	7	4			
4.	Illustrate the C coding for swapping of two numbers using call by value and call by reference	7	5			
	SECTION-B					
1.	Write a C program to sort the given N names using function	3	2			
2.	Differentiate between formal parameters and actual parameters	3	1			
3.	Mention the different types of storage classes.	3	1			
4.	Write about pointer Arithmetic	3	1			
	UNIT-V					
	SECTION-A					
1.	Compare with example code for Structure and Union	4+3	4			
2.	Explain Dynamic Memory Management	7	4			
3.	Describe about the functions and structures.	7	1			
4.	Explain about the structures and its operations	7	2			
	SECTION-B					
1.	How typedef is used in structure?	3	4			
2.	How the structure members are initialized?	3	2			
3.	What is the difference between enum and macro?	3	1			
4.	Differentiate between structure and a union.	3	3			