

## **Department of Computer Science & Engineering**

## QUESTION BANK FOR I Semester (Term: Nov 2022- March 2023) Principles of Programming Using C (PPC18)

TEST Hours: 02 TEST Marks = 10M Integrated Laboratory: 20M Continuous Evaluation (Regularity+ Record) = 10M

	Integrated Laboratory: 20101 Continuous Evaluation (Regularity+ Record) = 10101								
S.No	List of Programs: Principles of Programming Using C (PPC18)								
1.	• Write a C program to convert temperature given in Celsius to Fahrenheit and Fahrenheit to Celsius.								
	Write a c program to calculate the area and circumference of a circle using PI as a defined								
	constant.								
2.	Write a C program to calculate the total sales given the unit price, quantity, discount and tax rate.								
	Write a C program to calculate a student's average score for a course with 4 quizze								
	midterms and a final. The quizzes are weighted 30%, the midterms 40% and the final 30%.								
3.	• Write a C program to perform a desired arithmetic operations (add, multiply, subtract and								
	divide two numbers) using switch statement.								
	• Write and execute a C program to read numbers using keyboard and find the area of								
	triangle, square, circle and rectangle using switch statement and display the result.								
	• Write a C program to check whether a character is alphabet, digit, punctuation or white								
	space using simple if and use of the character classification functions found in c-type								
	library.								
4.	<ul> <li>Write a C program to compute the roots of a quadratic equation by accepting the coefficients.</li> </ul>								
	• Write a C program to read a test score, calculate the grade for the score and print the grade								
5.	<ul> <li>Write a C program to read a number using keyboard, find the factorial of a number using for loop/Recursion and display the result.</li> </ul>								
	<ul> <li>Write a C program to check whether a given number is palindrome or not using a while loop</li> </ul>								
6.	Write a C program to print square of index and print it.								
	Write a C program to calculate sum and average of elements in an array								
7.	<ul> <li>Write a C program to search an ordered list using binary search.</li> </ul>								
	Write a C Program to sort elements in ascending order using bubble sort								
8.	• Write a C Program to find perform addition of two matrices using two dimensional arrays								
	Write a C Program to find product of two matrices using two dimensional arrays								
9.	• Write a C Program to read two number, Find its GCD and LCM using function with								
	arguments and without return type								
	• Write a C Program to read a number, Find whether it is prime number or not using function without arguments and without return type								
10	<ul> <li>Write a C Program read two strings, Combine them without using string built-in functions.</li> </ul>								
10.	<ul> <li>Write a C Program read two strings, Compare them without using string built-in functions.</li> </ul>								
	- 1116 a C 11051am read two strings, Compare them without using string built-in functions.								

Prepared by: PPC Coordinator HOD, Dept. of CSE



11.	•	Write a C Program to demonstrate the use of built in string functions like strcpy(), strcat(),strcmp() and strlen()							
	•	Write a C Program to read marks of three students in 3 subjects. Calculate the total marks scored, student wise and subject wise using structure.							
12.	•	• Write a C Program to swap two numbers using pointers and display the result.							
	•	Write a C Program to read an array of elements, Compute its sum using pointers.							

**Note:** Student is required to solve one problem from Question Bank and questions are allotted based on lots.

## **Marks Distribution: 20 Marks**

Program Conduction and Result	Write-Up	Execution	Viva/Demo	Change of Program	Continues Evaluation	Total Marks
10M	02M	06M	02M	-2 Marks	10M	20 Marks

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