		Odd Mid Semester Examination for Academic Session 2025-26	
COI	JRSI	E NAME: B. Tech.	STER:1
		H NAME: M, N, O, P, Q, R, S & T	
and the same of th		SUBJECT NAME: C and DS	
FUL	L M	ARKS: 30 TIME: 90	Minute
		Answer All Questions.	Minute
		The figures in the right hand margin indicate Marks. Symbols carry usual meaning.	
		<u> 그림으로 보면하는 것은 사람들이 많</u> 다면 하는 것이 되었다. 그렇게 되었다면 하는 사람들이 되었다면 하는 사람들이 되었다면 하는 것이 되었다면 하는 것이 되었다면 하는 것이 되었다면 하는 것이 되었다면 하는 것이다면 하는	
Q1.	36	Answer all Questions.	[2 × 3]
	a)	Define and differentiate between interpreter and a compiler?	- CO1
			- CO1
	b)	What is the output of the following programme, justify your answer?	- CO2
		#Include <stdio.h></stdio.h>	
		int main()	
		int $i = 5$;	
		for(;i<20;i+=2)	
		{ printf("%d\n", i);	
		if (i > 13)	
		break;	
		}	
		return 0;	
	1	}	
	c)	Differentiate between while and do-while with suitable example?	- CO1/
			CO2
<u> </u>		Draw and discuss a flavorhant names anting the start in 1 1 1 1	
Q2.		Draw and discuss a flowchart representing the steps involved in the process of compilation and execution of a C program.	[4+4]
		Differentiate between continue and break statement. Write a C program to calculate	- CO1
		the grade of a student by considering the following range of marks.	- 601
	4	O, 90<=marks<=100	
		Grades = A+, 80 <= marks < 90	
		A, 70<=marks<80	
		B, 60<=marks<70	
		OR	
		Write an algorithm and draw flowchart for finding largest among three numbers?	- CO1
		Write program in C that will accept an integer. Then find the reverse of the integer?	
1961		Then check the integer is palindrome or not and print it.	
Q3.		Write a short note on basic data types that the C language supports?	[4+4]
		Write a program in C to print the following pattern.	- CO2
		1	
		12	1.
		123	
	SHIPS IN		1
7.78		1234	and the first

	Define a user defined function called Sum() with required number of arguments and mention its return type. Now in function main(), call the function Sum() to calculate sum of last two digits of an integer number taken from the keyboard which has at	CO2
	What are the different types of operators in C? Explain any four operators (arithmetic, relational, logical, conditional, bitwise) with suitable examples.	The state of
Q4.	Write a program using array to accept 20 integers. Calculate the sum of the inputted	[4+4]
	What do you mean by function? What is function prototype? Write a program using C to find GCD among 2 inputted number using function.	- CO1/ CO2
-	OR	
	What is a recursive function? Write a recursive function to find out the factorial of user inputted number.	- CO1/ CO2
	A worker takes a job for 31 days. His pay for the first day is Rs. 20. His pay for the second day is Rs. 40. Pay for each day is twice what he gets the previous day. Write a program in C to display the total pay for 10 days?	