



IGIT, INDIRA GANDHI INSTITUTE OF TECHNOLOGY

**END
SEMESTER**

Branch		Civil/Electrical/Mechanical		Programme		B. Tech		
Course Name		Programming Using C		Semester		1st		
Course Code		ESCS2105		Year		2025		
Time: 03 Hrs		Answer Question number 1 which is compulsory and any five from the rest.		Maximum Marks		60		
Bloom's Taxonomy Level (BL)		L1: Remembering	L3: Applying		L5: Evaluating			
		L2: Understanding	L4: Analysing		L6: Creating			
Each Question Carry Marks (M) as Indicated in the right-hand Margin								
Q's	Questions			M	BL	CO	PO	
1. a	Find the output. #include <stdio.h> int main(void) { int i = 40 >> 5 << 3 >> 2 << 1; printf("%d", i); return 0; }			01	L1	CO2	PO1	
b	Find the output. #include <stdio.h> #include <stdio.h> int main() { int x; x = 2 > 5 != 1 ? 5 < 8 && 8 > 2 ? !5 ? 10 : 20 : 30 : 40; printf("Value of x:%d", x); return 0; }			01	L2	CO2	PO2	
c	Convert (49.75) ₁₀ to binary.			01	L1	CO1	PO3	
d	Find the output. # include"stdio.h" int main() { int i; if(i= (2,1,0)) printf("welcome to you "); else printf("Bye "); printf("%d\n",i); }			01	L2	CO3	PO4	
e	Find the output. #include <stdio.h> int main() {			01	L5	CO3	PO4	

	<pre> int i; for(i=65; i<(65+26);i++) printf("%c ",i); return 0; } </pre>				
f	Find the output. <pre> #include <stdio.h> int main() { int a[] = {0,1,2,3,1}; printf("\n %d",a[3]); printf("\n %d",a[a[3]]); printf("\n %d",a[a[3]+a[1]]); printf("\n %d",a[a[a[1]]]); return 0; } </pre>	01	L3	CO3	PO3
g	Find the output. <pre> #include<stdio.h> int main() { int i = 6, *j, k; j = &i; printf("%d\n", i * *j * i + *j); return 0; } </pre>	01	L2	CO4	PO2
h	Find the output. <pre> #include<stdio.h> void fun(int*, int*); int main() { int i=5, j=2; fun(&i, &j); printf("%d, %d", i, j); return 0; } void fun(int *i, int *j) { *i = *i**i; *j = *j**j; } </pre>	01	L4	CO4	PO1
i	Find the output. <pre> #include<stdio.h> int main() { enum days {MON=-1, TUE, WED=6, THU, FRI, SAT}; printf("%d, %d, %d, %d, %d, %d\n", MON, TUE, WED, THU, FRI, SAT); return 0; } </pre>	01	L1	CO5	PO4
j	Find the output. <pre> #include <stdio.h> int main() { union std { int x; int y; }; union std s1; s1.x =10; s1.y =20; printf("%d %d\n",s1.x, s1.y); return 0; } </pre>	01	L4	CO5	PO3

2. a	Write a program code to find entered character is vowel or consonant. using ternary operator.	05	L2	CO2	PO2
b	Write a C program to check a number is odd or even using bitwise operator.	05	L3	CO2	PO1
3. a	(i) Subtract binary numbers using 1's and 2's complements. 1011011 -1010 (ii) Subtract decimal numbers using 9's and 10's complements. 36281 – 5432	05	L5	CO2	PO2
b	Write a program in C to display the first n terms of Fibonacci series.	05	L3	CO3	PO3
4.a	Write a program in C to find transpose of a given matrix.	05	L5	CO3	PO4
b	Write a program in C to print a string in reverse order.	05	L2	CO3	PO2
5. a	Write a C programming to find factorial of number using function	05	L3	CO4	PO4
b	Write a program in C to find the sum of digits of a number using recursion.	05	L4	CO4	PO1
6.a	Write a program in C to sort an array using Pointer.	05	L4	CO4	PO1
b	Write the difference between structure and union.	05	L2	CO5	PO4
7.a	Write a C Program to Store Information of 10 Students and display that information on screen Using file.	05	L3	CO5	PO2
b	Write a program in C to find distance between two points using structure.	05	L1	CO5	PO3
	ANSWER ANY TWO QUESTIONS				
8.a	Differences between formatted input/output function and unformatted input/output function.	05	L3	CO2	PO1
b	Different types of string handling functions with examples.	05	L1	CO3	PO3

c	Storage class variable	05	L2	CO4	PO4
d	Different types of preprocessor directives	05	L1	CO5	PO1

Note:

- 1. End Semester Exam carry weightage of 60 marks out of 100**
- 2. All the course outcomes are covered.**
- 3. L1 and L2 carry minimum 40% of the total semester mark.**