



Answer ALL questions
(The figures in the right-hand margin indicate marks)

(2 x 5 = 10 Marks)

	CO #	Blooms Level
PART – A		
Q.1. Answer <i>ANY FIVE</i> questions		
a. What are the rules for identifiers?	CO1	K1
b. Write a program to find the largest of three numbers.	CO2	K3
c. Explain the break statement with a suitable example.	CO3	K2
d. Difference between while and a do-while loop.	CO4	K2
e. Define a function and write a program to find the sum of two numbers using a function.	CO4	K3
f. What will be the output of the following code? int	CO3	K2
<pre>i = 1; while(i <= 5); { printf("%d", i); i++; }</pre>		

PART – B

(15 x 4 = 60 Marks)

	Marks	CO #	Blooms Level
Answer ANY TWO (a, b OR c, d) from all the questions below			
2. a. Write a C program to calculate the area and perimeter of a rectangle.	8	CO1	K3
b. Explain relational and logical operators with examples.	7	CO2	K2
(OR)			
c. Write a program to find the roots of a quadratic equation.	8	CO2	K3
d. Explain the compilation and execution process of a C program.	7	CO1	K2
3. a. Write a program to find the multiplication table of a number entered by the user.	8	CO3	K3
b. Write a C program to print the following right-angled triangle	7	CO4	K2
<pre>* ** *** **** *****</pre>			
(OR)			
c. Write a program to find the factorial of a number.	8	CO3	K3
d. Write a program to find the sum of the digits of a number entered by the user.	7	CO3	K2
4. a. Write a program to find the maximum of two numbers using the conditional operator.	8	CO2	K3
b. Explain the else-if ladder with a flow diagram.	7	CO2	K3

(OR)

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|-------|---|---|-----|----|
| c. | Write a program to simulate a calculator using a switch. | 8 | CO4 | K3 |
| d. | Explain the types of loops with syntax and examples. | 7 | CO3 | K2 |
| 5. a. | Write a program to find the sum of 1 ST N natural numbers using recursion. | 8 | CO4 | K3 |
| b. | Explain function prototype, call, and definition. | 7 | CO4 | K3 |
| (OR) | | | | |
| c. | Write a recursive program to find the factorial. | 8 | CO4 | K3 |
| d. | Explain the advantages and disadvantages of recursion. | 7 | CO4 | K2 |

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