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## **ANURAG Engineering College**

(An Autonomous Institution)

I B.Tech I Semester Supplementary Examinations, June/July – 2024 PROGRAMMING FOR PROBLEM SOLVING – I (COMMON TO ALL BRANCHES)

	(COMMON TO ALL BRANCHES)				
Time: 3 Hours			Max. Marks: 75		
Section – A (Short Answer type questions) Answer All Questions		Course	(25 B.T	Marks) Marks	
AHSWC	An Questions	Outcome	Level	171411113	
1.	Define a flow chart. list the most common symbols used in drawing flowchart.	CO1	L1	2M	
2.	Outline the structure of C Program	CO1	L2	3M	
3.	Define operator precedence in C with suitable example.	CO2	L1	2M	
4.	List the Logical operators in C language.	CO2	L2	3M	
5.	Define nested if statement with syntax.	CO3	L1	2M	
6.	Define switch statement with syntax.	CO3	L2	3M	
7.	List the benefits of the functions.	CO4	L1	2M	
8.	Define Recursion in C.	CO4	L2	3M	
9.	Define an array with example.	CO5	L1	2M	
10.	Define a string with an example.	CO5	L1	3M	
10.	Define a string with an example.	COS	1.71	2141	
	Section B (Essay Questions)				
Answe	r all questions, each question carries equal marks.	(5	X 10M	=50M)	
11. A)	Explain briefly about the variables and constants in C with example.  OR	CO1	L2	10M	
B)	Develop an algorithm and construct the flowchart to find the roots of the quadratic equation $ax^2+bx+c=0$ . [x=-b±( $\sqrt{b2-4ac}$ )/2a].	CO1	L3	10M	
12. A)	Explain briefly the increment and decrement operators in C with example.	CO2	L2	10M	
	OR	G 0.0		403.5	
В)	Explain briefly about the type conversion in C with example.	CO2	L2	10M	
13. A)	Explain for loop and demonstrate with a C program to print the natural numbers in reverse order from N to 1.  OR	CO3	L3	10M	
В)	Explain the difference between while loop and do while loop with an example to print natural numbers from 1 to 10.	CO3	L3	10M	
14. A)	Explain parameter passing mechanisms in C with examples.	CO4	L2	10M	
B)	OR Explain briefly the different storage classes in C with examples.	CO4	L2	10M	
15. A)	Explain two-dimensional array with an example to add two matrices of n x n and print it.  OR	CO5	L3	10M	
B)	Explain strcpy() and strrev() with suitable examples.	CO5	L3	10M	