LORDSINSTITUTEOFENGINEERINGANDTECHNOLOGY

(UGC AUTONOMOUS)

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Course Code: U23CS101

B.E, I-SEM - PRE-FINAL EXAM

Programming for Problem Solving

(Common for CSE/CSD/CIVIL/MECH)

Time: 3 *Hours* *Max. Marks:* 60

Instructions to the Students:

- **Question No. 1 is compulsory**
- **Answer any 4 questions from Q.No.2 –Q. No7**

1.	a.	Draw a flowchart to display whether given number is positive or negative or zero.	[2]	CO1	BTL2
	b.	How string is declared and initialized.	[2]	CO2	BTL2
	c.	Write a C function to calculate average of three numbers	[2]	CO3	BTL3
	d.	Differentiate between array and structure	[2]	CO4	BTL4
	e.	What is a FILE and explain type of files used in C?	[2]	CO6	BTL2
	f.	Write short notes about enum data type?	[2]	CO4	BTL2
2.	a.	Illustrate different types of tokens in C.	[6]	CO1	BTL2
	b.	Draw and explain block diagram of Computer.	[6]	CO1	BTL2
3.	a.	Explain iterative statements in C and write their syntax.	[6]	CO2	BTL2
	b.	Write a C program to display the sum of first N natural numbers using do-while loop.	[6]	CO2	BTL3
4.	a.	Explain call by reference. Write a C program to Swap two numbers using call by reference.	[6]	CO3	BTL4
	b.	Explain how arrays are passed to a function withprogram.	[6]	CO3	BTL4
5.	a.	Explain how array of structure is used in a program.	[6]	CO4	BTL4
	b.	Write a C program to display the GCD of two numbers using recursion.	[6]	CO4	BTL3
6.		Write a C program to read the contents in a given file.	[12]	CO6	BTL3
7.	a.	Write a C program to find roots of given quadratic equation.	[6]	CO3	BTL3
	b.	Write a C program to perform matrix addition.	[6]	CO2	BTL2