LR23

160923323426

Course Code: U23CS101

LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY
(UGC AUTONOMOUS)

Approved by AICTE | Recognized by Government of Telangana | Affiliated to Osmania University
Accredited by NBA | Accredited with 'A' grade by NAAC | Accredited by NABL

B.E I- SEMESTER END EXAMINATION (Regular) -Feb-2024

Programming for Problem Solving

(Common to CSE, CSD, Civil & Mech)

Time: **3 *Hours*** **Date: 29-02-2024** ***Max. Marks:*** **60**

Bloom's Taxonomy Levels (***BTL***)

1. Remember	2. Understand	3. Apply	4. Analyze	5. Evaluate	6. Create

Note: Question No. 1 is compulsory
Answer any 4 questions from Q.No.2 - Q.No.7

			CO	BTL
1.	a.	Define an algorithm and list its characteristics.	[2]	CO1 BTL2
	b.	Write a C program to print 1 to 10 using do – while loop?	[2]	CO2 BTL2
	c.	What are actual and formal parameters in function call?	[2]	CO3 BTL2
	d.	Differentiate between recursion and iterative statement?	[2]	CO4 BTL4
	e.	List the application of pointers.	[2]	CO5 BTL2
	f.	Write the various text file opening modes?	[2]	CO6 BTL2
2.	a.	Discuss briefly about hardware components of computer.	[6]	CO1 BTL2
	b.	Draw a flow chart to display largest number among 3 numbers.	[6]	CO1 BTL3
3.	a.	Explain how break and continue statements are used in C.	[6]	CO2 BTL4
	b.	Illustrate how to declare and initialize 1-Dimensional array.	[6]	CO2 BTL3
4.	a.	Illsutrate Linear search algorithm and explain how it works with example.	[6]	CO3 BTL4
	b.	Write a C program to swap two numbers using call by reference.	[6]	CO3 BTL3
5.	a.	What is the union. Explain it with a program.	[6]	CO4 BTL2
	b.	Explain about recursive function with example.	[6]	CO4 BTL2
6.	a.	Describe how pointers are declared and initialized in C.	[6]	CO5 BTL4
	b.	Describe linked list with its application.	[6]	CO5 BTL2
7.	a.	Illustrate different ways to initialize and access the members of a structure.	[6]	CO4 BTL4
	b.	Differentiate between structure and union with suitable example.	[6]	CO4 BTL4

****