

**MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE**  
(AUTONOMOUS)

**I-B.Tech I-Semester Regular Examinations (MR23), February - 2024**  
**INTRODUCTION TO PROGRAMMING (COMMON TO ALL BRANCHES)**

Time: 3 hours

Max. Marks: 70

-----  
Question Paper consists of Part-A and Part-B  
Answer **ALL** the question in **Part-A and Part-B**  
-----

**PART-A (10X2M = 20M)**

		<b>Marks</b>	<b>CO</b>	<b>L</b>
1.a)	What do you mean by variables in 'C'?	(2M)	CO1	L1
b)	Identify the use of ternary or conditional operator.	(2M)	CO1	L4
c)	Recommend the suitable example for infinite loop using while.	(2M)	CO2	L5
d)	Differentiate break and continue statement.	(2M)	CO2	L2
e)	Define a float array of size 5 and assign 5 values to it.	(2M)	CO3	L1
f)	How to initialize a string? Give an example.	(2M)	CO3	L6
g)	Define pointer. How will you declare it.	(2M)	CO4	L1
h)	Invent the application of size of operator to this structure. Consider the declaration: struct { char name; int num; } student;	(2M)	CO4	L6
i)	What is meant by pass by value and pass by reference?	(2M)	CO5	L3
j)	How to read and write the file in C.	(2M)	CO5	L6

**PART-B (5X10M = 50M)**

2a.	Explain the concept of type conversion in programming and why it is necessary. Give an example of implicit or explicit type conversion.	(5M)	CO1	L2
b.	Briefly explain the concepts of compilation and execution in programming.	(5M)		L1
(OR)				
3a.	Discuss the use of flowcharts as a visual representation of algorithms.	(5M)	CO1	L2
b.	Write an Algorithm along with flow chart and pseudocode to find whether the given number is odd or even.	(5M)		L3
4a.	Write a C program To check whether a given year is leap or not.	(5M)	CO2	L4
b.	Write a C Program To generate the first n numbers in a Fibonacci series.	(5M)		L1

(OR)				
5a.	Write a C program To check whether the given number is Odd or Even	(5M)	CO2	L3
b.	Write a C program To check whether the given number is Armstrong number are not.	(5M)		
6a.	Explain about the String Arrays and its manipulation in detail.	(5M)	CO3	L1
b.	Describe the following with respect to arrays: - Declaration of array and accessing an array element.	(5M)		L2
(OR)				
7a.	Describe the following functions with examples. (i) strlen() (ii) strcpy()	(5M)	CO3	L1
b.	Describe the with suitable examples the initializing a 2-Dimensional Array.	(5M)		L2
8a.	Describe about pointers and their operations that can be Performed on it.	(5M)	CO4	L1
b.	Explain about the structures and its operations.	(5M)		L2
(OR)				
9a.	Develop a C program to store the employee information using structure and search a particular employee details.	(5M)	CO4	L4
b.	Define a structure called student that would contain name, regno and marks of five subjects and percentage. Write a C program to read the details of name, regno and marks of five subjects for 6 students and calculate the percentage and display the name, regno, marks of 6 subjects and percentage of each student.	(5M)		L4
10a.	Discuss about passing arrays to function.	(5M)	CO5	L2
b.	Describe the various functions used in a file with example.	(5M)		L1
(OR)				
11a.	Demonstrate about function declaration and function definition.	(5M)	CO5	L3
b.	Distinguish between the following functions. getc() and getchar(). scanf() and fscanf().	(5M)		L2

\*\*\*\*\*