Module 4- Functions

SL NO	QUESTIONS	MARKS	COs	BL
1.	Define an array and explain how to declare and initialize a one-dimensional array in C.	2	4	2
2.	Define two-dimensional array? How is it different from a one-dimensional array?	2	4	2
3.	Illustrate declare and initialize a multi-dimensional array with an example.	2	4	3
4.	Write a short code snippet to declare and initialize an array of 10integers.	2	4	3
5.	Define string in C? explain how do you declare and initialize a string?	2	4	2
6.	Explain how to find the length of a string in C using a standardlibrary function.	2	4	2
7.	Illustrate the function used in C to copy one string to another string with example.	2	4	3
8.	Explain arrays of strings with an example.	2	4	2
9.	Explain an automatic storage class in C with an example.	2	4	2
10.	Define an external variable and explain its scope with an example.	2	4	2
11.	Explain the static storage class with an example.	2	4	2
12.	Define register variables and how do they differ from automatic variables?	2	4	2
13.	Explain in detail the process of declaring and initializing a two- dimensional array in C. Provide code examples and explain howdata is stored and accessed.	10	4	2
14.	Describe the various operations that can be performed on stringsin C. Include examples for each operation.	10	4	3
15.	Discuss the differences between automatic, external, static, and register storage classes in C. Provide examples to illustrate eachtype.1	10	4	4
16.	Write a C program to input and display a multi-dimensional array. Explain the code and how memory is allocated for the array.	10	4	2

17.	Illustrate the concept of arrays of strings in C. Write a program to demonstrate how to read and display multiple strings.	10	4	3
18.	Compare and contrast the four storage classes in C in terms of scope, lifetime, and default initial value. Provide examples for better understanding.	10	4	3
19.	Write a C program to perform matrix multiplication using two-dimensional arrays. Explain the logic, and how the arrays are declared, initialized, and accessed.	15	4	3
20.	Write a C program that demonstrates the useof various string operations such as concatenation, comparison,and length calculation.	15	4	3
21.	Explain in detail the use and importance of static and external storage classes and write a program to that utilizes both storage classes and explain how they interact.	15	4	2