



## School of Engineering and Technology

### Module 3 -Array Strings and Storage Classes

SL NO	QUESTIONS	MARKS	COs	BL
1.	What is an array? Write the syntax for array.	2	3	1
2.	What is an array in C? Explain with an example.	2	3	1
3.	How do you declare an array of integers with 10 elements in C?	2	3	3
4.	Write the syntax to initialize an array of 5 floats with values 1.1, 2.2, 3.3, 4.4, and 5.5.	2	3	3
5.	Explain how to find the length of an array in C.	2	3	2
6.	Explain how string is defined in C. List the various inbuilt string functions.	2	3	2
7.	Explain strcat(), strlen() and strcpy() functions with examples.	2	3	1
8.	Define a string in C	2	3	1
9.	What is the null character in a string, and why is it important?	2	3	2
10.	How do you declare a string in C? Provide an example.	2	3	2
11.	Write a C statement to initialize a string with "Hello".	2	3	3
12.	Write a C statement to print a string using printf.	2	3	2
13.	Define Automatic variables (Local variable).	2	3	1
14.	Define External variables and Static variables.	2	3	1
15.	Define Register variables.	2	3	1
16.	Explain the declaration and initialization of one dimensional and two-dimensional array with an example.	5	3	2
17.	Define array. Explain with suitable example how to declare and initialize 1D array	5	3	1
18.	What is array? Give example and advantages of array.	5	3	1
19.	What is String? Write a program in C to reverse the input string.	5	3	3
20.	How do you find the length of a string in C? Which library function is used?	5	3	3
21.	Explain the difference between character array and string in C.	5	3	2



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22.	Explain how the strcpy() function works internally. Provide an implementation example.	5	3	2
23.	Write a C program to search an element using linear and binary techniques.	10	3	2
24.	Write a C program for [consider integer data] (i) Bubble sort (ii) Linear search	10	3	2
25.	Define an array. Explain declaration and initialization of one dimensional, two dimensional and multi-dimensional array.	10	3	2
26.	Explain two-dimension arrays and write a program to read and write a 2D array.	10	3	2
27.	What is string? Write a program to concatenate two strings without using built in function.	10	3	3
28.	Write a program to copy one string into another and count the number of characters copied.	10	3	3
29.	Write a short note on storage classes.	5	3	1
30.	Write a program to store 10 numbers in an array. Then find out Sum, Maximum and Average of these 10 numbers. (Instead of 10 use 20 numbers)	20	3	3
31.	Write a program to find out the largest of an array.	20	3	3
32.	a) Write a C program to convert lowercase string to uppercase using array b) Write a C program to convert uppercase string to lowercase using array.	20	3	3
33.	Write a C program to read 10 numbers from user and store them in an array. Display Sum, Minimum and Average of the numbers.	20	3	3
34.	Write a C program to read N integers into an array A and to find the (i) sum of odd numbers, (ii) sum of even numbers, (iii) average of all numbers. Output the results computed with appropriate headings	20	3	3
35.	Write a C program to convert a given string to uppercase without using any library functions. Explain the logic used in your implementation.	20	3	3