

Course:	Structured Programming Methodology			Semester:	I	Date:	
Division:		Batch:		SET	E	Name:	
Exam:	OST			Time:		Roll No:	

Q No	Question	Marks
1	Write a program to accept marks of 10 students in an array and perform the following operations using user defined function: <ul style="list-style-type: none"> 1. Calculate and display the average marks. 2. Find and display the highest and lowest marks. 3. Count how many students scored above the average. 4. Display results in a user-friendly format. <p style="text-align: center;">OR</p>	15
2.a	Write a program that accepts a sentence from the user and performs the following using string handling functions: <ul style="list-style-type: none"> 1. Count and display the number of vowels in the sentence. 2. Copy the sentence into another string and convert it to uppercase. 3. Display both the original and modified strings. 	7
2.b	Write a C program that demonstrates the use of user-defined functions and switch-case control structure to print different star patterns based on the user's choice. The program should: <ul style="list-style-type: none"> 1. Display a menu with the following options: <ul style="list-style-type: none"> o Half Pyramid o Inverted Pyramid o Full Pyramid o Exit 2. Use a switch-case statement to call the appropriate user-defined function for the selected pattern. 3. Implement star pattern using functions. Each pattern function should accept the number of rows as input from the user and display the pattern accordingly. 	8