Course:	PROGRAMMING IN C			**Semester:**	Second
Division:	ALL	**Batch:**		**Date:**	24/04/2024
Exam:	ON-SCREEN TEST			**Time:**	10 AM to 12 PM
Name:				**Roll No:**	

SET B

Q No	Question	Marks
1	**Attempt any one** a) In a small firm there are 5 salesmen. Each salesman is supposed to sell 5 products. Write a C program using a two-dimensional array to print below attributes. i) Total sales done by each salesman ii) Total sales of each item b) Implement a function in C that finds the maximum number from a sequence entered by the user. The function should have the following specifications: • **Function Name:** *findMax* • **Parameters:** ◦ n: size of a sequence (input by the user). ◦ sequence: An array representing the user-entered sequence of integers. • **Return Value:** ◦ The maximum value found in the sequence ◦ If the sequence is empty it will return -1. • **Display:** ◦ The result (maximum value or -1) should be displayed in the main function. You should prompt the user to enter the size(n) and sequence of integers, store them in an array. Call the ***findMax*** function with the provided n and sequence to determine the maximum number (if it exists) and display the result. **Test Case 1:** Input : n= 10 2 3 1 4 5 3 6 4 3 8 Output: 8 **Test Case 2:** Input : n = 0 Output: -1 **Test Case 3:** Input : n = 5 7 6 3 5 2 Output: 7	15

2	**Attempt any one**	15

a) Design a structure to represent the information of stock with the following attributes:
Stock_id, Stock_name, Price, Quantity
arrange the information in descending order by quantity.

Test Case 1: Input: Enter the number of stocks: 2 Enter Stock_id: 101 Enter Stock_Name: IRCTC Enter Price: 355 Enter Quantity: 3 Enter Stock_id:102 Enter Stock_Name: Reliance Enter Price:270 Enter Quantity: 4	Output: After Sorting: Stock_id:102 Stock_Name: Reliance Price:270 Quantity: 4 Stock_id: 101 Stock_Name: IRCTC Price: 355 Quantity: 3

b) WAP using Dynamic Memory Allocation to accept the following data of `students` having data members: "***Student name, history marks, math's marks, science marks, percentage***". Accept this data for 10 students and count the number of students belonging to each group of percentage: (groupA - 81% to 100%) (groupB - 66% to 80%) (groupC - 51% to 65%) (groupD - 0% to 50%) and display this data in proper tabular form.

eg:- Group	range	Student count
A	81 to 100%	3
B	66 to 80%	3
C	51 to 65%	3
D	0 to 50%	1