

CS 3653 – Discrete Mathematics for Computer Science

PA – 2	Due – Oct 16, 2023, 11:59 pm (CST)
Chapter # 2 & 3	Max. Points # 50

Important Note: [You may be asked to explain the programming code to the TA.](#)

SN	QUESTION	Pts
1	<p>Write a program with the specified input and output.</p> <p>Given subsets A and B of a set of integers with n elements. For example, subset A = {1, 2, 3, 4, 5} and subset B = {4, 5, 6, 7, 8}. Write a program to find \bar{A}, $A \cup B$, $A \cap B$, $A - B$, and $A \oplus B$. The value of n, i.e., the number of elements in both the subsets and actual elements in both the subsets, must be taken by the user through the keyboard.</p>	25
2	<p>Write a program with the specified input and output.</p> <p>Write a program to display the following in the list of integers of n elements. (The value of n should be > 10 & taken by the user through the keyboard).</p> <ol style="list-style-type: none"> 1. Even numbers 2. Odd numbers 3. Prime numbers 4. Second Largest 5. Second Smallest 	25