## **Data Structures**

## Data Structures and Algorithms Spring-2020 Mid-Semester Assignment

Faculty: Muhammad Adil Asst: Prof.

• /	Attempt	All	Tasks
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Q#1.	. (a) Let the size of A [] be 15654 and the lower bound be 36767, calculate the u bound.			
(b)	Suppose a list of 350 elements is to be sorted using Bubble Sort, then find			
	i. Total Number of Passes (	(01)		
	ii. Total Number of Steps (	(01)		
	iii. Number of Steps in Pass# 137	(01)		
	iv. Number of Steps in Pass# 193	(01)		
Q#2.	Sort the given list using Selection Sort. (	(10)		
	10, 15, 0, 7, 8, 6			
Q#3. ]	Fill in the blanks.	(10)		
i.	Data Structure may deal with only a single value.			
ii.	Data Structure may deal with multiple values.			
iii.	The logical / mathematical organization of data is called			
iv.	A Tree is a Data Structure.			
v.	An Array is a Data Structure.			
vi.	List must be sorted for Searching.			
vii.	17 int-div 2 =			
viii.	An investigation parade of criminals is an example of			
ix.	Number of Fields in a Record is called			
<b>X</b> .	Number of Records in a Block is called			