

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Computer Org & Assembly Lang Lab	Course Code:	EL213
Program:	BS(Computer Science)	Semester:	Fall 2018
Duration:	30 Minutes	Total Marks:	10
Paper Date:	5-Oct-18	Weight	5%
Section:	A	Page(s):	1
Exam:	Quiz-I		

Instruction/Notes:

1. Write a program which sort an **N number array** having numbers in the range of **-128 to 127** using the algorithm of **Insertion Sort** given below. You have to **store the elements of the array and its size** in memory using data labels.

Array Elements -> -10, 2, 0, -15, 3, 7, 14, 1, -12, -11

Array Size -> 10

Algorithm of insertion sort

```
i ← 1
while i < length(A)
    j ← i
    while j > 0 and A[j-1] > A[j]
        swap A[j] and A[j-1]
        j ← j - 1
    end while
    i ← i + 1
end while
```

