Computer Organization and Assembly Language

## Assignment-03 Marks: 80 Due Date: 26 Jan 2018

## Dear students;

## Submit one MS word file containing answers of all questions, on LMS only.

## Please submit assignment within given time. Late submissions will deduct 50% marks.

**Question 1: (20)**

Question: Write program that will copy the data from physical memory address 0x14520 to physical memory address 0xAB100. Also, calculate the length of the string. Use string copy instructions.

**Question 2: (20)**

Write program to count a specific word in a paragraph in memory. For example consider that we want to count appearance of word ‘**and’** in paragraph given below. Save the result in CX register.

‘The use of the trap flag has been deferred till now. The three flags not used for mathematical operations are the direction flag, the interrupt flag **and** the trap flag. The direction **and** interrupt flags have been previously discussed’, 0;

**Question 3: (20)**

Consider a string of your choice, calculate its length and display the result on screen with the message. For example, if length of string is 19, your program would display **“The length of string is=19 characters”**. Your program should work for any string length.

**Write subroutines for calculating string lengths and displaying strings on screen.**

**Question 4: (20)**

Write an infinite loop to print the below string in the format of news slide such that it moves from (left to right) on the top of the screen.

String: db. “we love Pakistan”