

Time 90 minutes, Marks 100 (You need to answer all questions).

Name -ID -

1. Explain LEA and Offset [2]

2. What is the difference between Data Segment and .Data?[3]

3. Explain the following - ASSUME DS:DATA CS:CODE[5]

- 4.Write down the syntax of the following instructions [10]
 - LEA
 - ADC
 - CMP
 - NOT
 - TEST

Programs:

1. Write a program in assembly language that can convert any lower-case latter to upper case and also any upper-case letter to lower case. [20]

Example:

Enter a letter: A
The letter in Upper Case is: A
The letter in Lower Case is: a

2. Write a program in assembly language that can convert test if a number is even or odd (from 0-9). [20]

Example:

Enter an integer: 8
The integer is: EVEN

3. Write a program in assembly language that can Read a string with gaps and print it. [20]

Example:

Enter a String: Boring Lab
The integer is: Boring Lab

4. Write a program in assembly language that will show the following outputs. Use only loop. [20]
