

CSE 331L / EEE 332L: Microprocessor Interfacing & Embedded System

Section: 6, Summer 2021

Quiz - 03

Marks: 10

Time: 25 mins

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| ID: | |
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Q1: Write necessary instructions to read two decimal numbers a and b ($0 \leq a, b \leq 50$) and take the inputs, and compute $a^2 - b$. (6)

Ans:

Call scan_num ; input a

Mov ax, cx

Printn

Call scan_num ; input b

Printn

Mul al ; a^2

Sub ax, cx ; $a^2 - b$

Q2: Suppose DL contains 0CDh. What will be the content of DL in binary after the following instructions are executed: (4)

SAR DL, CL ;if CL contains 2

SHR DL, 1

Ans:

DL: 1100 1101

After 1st instruction, DL: 1111 0011

After 2nd instruction, DL: 0111 1001