Quiz 1 ***(CSE331L.1 – Asif Ahmed Neloy\_Fall’20)***

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*Time 20 minutes, Marks 10 (You need to answer all questions). ID: 1632129642*

1. **Explain DAA and write the asm code using the following example –**

**AL 27H and AL 35H**

**ANSWER:**

 Adjusts the sum of two packed BCD values to create a packed BCD result. The AL register is the implied source and destination operand. The DAA instruction is only useful when it follows an ADD instruction that adds (binary addition) two 2-digit, packed BCD values and stores a byte result in the AL register.

NUM1 DB 27H

NUM2 DB 35H

MOV AL, NUM1

ADD AL, NUM2

DAA

**2.** Explain the “**CMP**” and “**Test**” instruction from the following example. Also, write which one of these affect the flag register and why.

**CMP AL, 000h**

**TEST AL, 001h**

**ANSWER:**

CMP AL, 000h Here AL is the destination and 000h is the source address.

TEST AL, 001h Here destination operand is not affected for given value.

CMP has no effect in flag register. Here only compare values.

Test register affect the flag register. If the flag value is 1 then all the value is 1, if the flag value is 0 then all the value is 0.

**End**