Name: Id#

COE 205, Term 092

Computer Organization & Assembly Programming

Quiz# 5

Date: Monday, May 10, 2010

# 

# **Q1.** Translate the following High level language constructs into assembly language with the minimum number of instructions possible. Assume that all numbers are signed.

# if (EAX > EBX || (ECX < 100 && EDX>20))

EAX = EAX - 2;

else

EDX=EDX+EBX;

# for (ESI=1; ESI< ECX; ESI=ESI+2)

EBX = EBX + ESI

# do{

Call RaedInt

while (EAX< ESI || EAX > EDI)

# switch(ESI){

case ‘0’: EAX=EAX + EBX; break;

case ‘1’: EAX=EAX + ECX; break;

case ‘2’: EAX=EAX + EDX; break;

case ‘3’: EAX=EAX + EDI; break;

default: EAX=EAX + EAX;

}