

Name:

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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.

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

EAX = EAX - 2;

else

EDX = EDX + EBX;

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

EBX = EBX + ESI

```
(iii) do{  
    Call RaedInt  
while (EAX< ESI || EAX > EDI)
```

```
(iv) 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;  
}
```