BIL 104E QUIZ 2 (Section B)

1) Given the following declarations:

```
int x = 3, y = 5, z = 7;
bool b1 = true, b2 = false, b3 = x == 3, b4 = y < 3;
```

evaluate the following Boolean expressions: (24)

(a) **x >= y (F)**
(b) **x <= y (T)**
(c) **x >= 0 && x < 10 (T)**
(d) **x < 0 && x < 10 (F)**
(d) x > 0 || x < 10 (T)
(e) x < 0 || x > 10 (F)
(f) !b3 (F)
(g) b1 && b4 (F)

2) Consider the following section of C++ code:

```
// i, j, and k are ints
if (i < j) {
    if (j < k)
        i = j;
    else
        j = k;
 }
 else {
    if (j > k)
        j = i;
    else
        i = k;
 }
 cout << "i = " << i << " j = " << j << " k = " << k << endl;
```

i=5, j=3, k=3

i=5, j=3, k=5

i=7, j=7, k=3

What will the code print if the variables **i**, **j**, and **k** have the following values? (18)
(a) **i** is 5, **j** is 7, and **k** is 3
(b) **i** is 7, **j** is 3, and **k** is 5
(c) **i** is 7, **j** is 5, and **k** is 3

3) Use a loop to rewrite the following code fragment so that it uses just one **cout** and one **endl**. (15)

```
cout << 1<< endl;
cout << 3 << endl;
cout << 5<< endl;
cout << 7 << endl;
cout << 9 << endl;
cout << 11 << endl;
cout << 13<< endl;
cout << 15 << endl;
```

```
for(int i=1; i<16; i+2)
  cout<<i<<endl;
```

4) How many asterisks does the following code fragment print? (10)

```
int a = 0;
while (a < 10 ) {
    cout << "*";
    a++;
}
cout << endl;
```

10

5) Write a C++ program that allows the user to enter exactly twenty double-precision floating-point values. The program then prints the minimum, and maximum of the values entered. (33)

```
int main()  {
double a, min, max
cout<<”Enter the first number: ”
cin>>a;
min=a;
max=a;
for(int i=2;i<21;i++) {
cout<<”Enter the ”<<I <<.” Number:”;
cin>>a;
if(a<min) min=a;
if(a>max) max =a;
}
Cout<<”Minimum :“<<min<<endl;
Cout<<”Maximum:”<<max<<endl;
}
```