

## Wk3 Lecture Review Quiz #2

### Answers

1. After the execution of the following code, what will be the value of num if the input value is 5?

```
cin >> num;
if (num > 0)
    num = num + 10;
else
    if (num > 5)
        num = num + 15;
```

(Points : 1)

- ☐ A) 0
- ☐ B) 5
- ☐ C) 10
- ☒ D) 15
- ☐ E) 20

Question 2. 2. Suppose x and y are int variables. Consider the following statements.

```
if (x > 5)
    y = 1;
else if (x < 5)
{
    if (x < 3)
        y = 2;
    else
        y = 3;
}
else
    y = 4;
```

What is the value of y if x = 4? (Points : 1)

- ☐ A) 1
- ☐ B) 2

- ☒ C) 3
- ☐ D) 4
- ☐ E) 6

Question 3.3. Consider the following scenario

Number of Shirts Discount

5-10 10%

11-20 15%

21-30 20%

31 or more 25%

Write a C++ code segment that prompts the user for the number of shirts required and then display the discount. Assume that the discount is zero if number of shirts is less than 5. For example, if the your enter 15, then your code should output 15%. (Points : 3)

```
int shirts;
cin >> shirts;
double discount;
if (shirts < 5)
    discount = 0;
else if (shirts <= 10)
    discount = .1;
else if (shirts <= 20)
    discount = .15;
else if (shirts <= 30)
    discount = .20;
else
    discount = .25;

cout << discount;
```