

I. Determine if the following tests are (T)true or (F)alse based on the values of the given variables:

```
int a = 0;
int b = 1;
```

(1 pt each)

- 1) (a < b || b < a); 1) \_\_\_\_\_
- 2) (a < -10 || b == 2); 2) \_\_\_\_\_
- 3) (a == 0 || b == 2); 3) \_\_\_\_\_
- 4) !(a == b); 4) \_\_\_\_\_
- 5) (a != b); 5) \_\_\_\_\_
- 6) !(a == 0 && b == 2); 6) \_\_\_\_\_
- 7) (a == 0 || b == 3); 7) \_\_\_\_\_
- 8) !(a == 0) && !(b == 2); 8) \_\_\_\_\_

II. If X and Z are TRUE expressions and Y is a FALSE expression, then would the following expressions evaluate to be TRUE or FALSE. (1 pt each)

- 1) (X && Y) || (X && Z) 1) \_\_\_\_\_
- 2) (X || !Y) && (!X || Z) 2) \_\_\_\_\_
- 3) !(X || Y) && Z 3) \_\_\_\_\_
- 4) !Z || Y && Z || Y && X 4) \_\_\_\_\_

III. Which operation is performed first in the following expression? (1 pt)

- 1) A && (B || (X == Y)) && (Z < 49) 1) \_\_\_\_\_  
     a)    b)    c)    d)

IV. Write a Java statement that assigns *false* or *true* to the boolean variable candidate if SAT\_Score is greater than 1100, and GPA is not less than 2.5, and AGE is not equal to 15 or 16.

(2 pts)

candidate = \_\_\_\_\_  
 \_\_\_\_\_