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Multiple Choice Circle the letter in front of the best (most correct) answer to each of the questions below (4 points each):

1) Identify all valid Identifiers (note reasons for invalid ones)

- ☒ a) class_average → IdE how to explain but for example for, public ~~can't~~ can't also be an identifier's name
- b) STUDENT_ID_NUMBER
- c) Me&You
- d) Grade%Complete
- ☒ e) 2cool4school → an identifier can't start with a number

2) Suppose that you have created source code for a program. The program compiles and runs without problems, but produces incorrect results. What type of error is this?

- ☒ a) Logical error
- b) Compile-time error
- c) Run-time error
- d) All of the above
- e) None of the above

3) Which of the following is a correct example of a comment?

- a) /& This is a comment
- b) #This is a comment
- c) * This is a comment
- d) /# This is a comment
- ☒ e) // This is a comment

4) What will be the value of myVal after the following line is executed?

myVal = 13 / 5 > 13 % 5;

- a) 4
- b) 5
- c) 5.2
- d) 5.6
- e) true
- ☒ f) false
- g) None of the above

5) What can the datatype of myVal be in the previous question? (Select all possible correct answers)

- ☒ a) boolean
- b) double
- c) int
- d) String
- e) None of the above

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Truth Table Fill in the following truth table with the appropriate values (4 points each column).

| | | | 6) | 7) | 8) ⁻¹ | 9) ⁻³ | 10) |
|-------|-------|-------|-------|--------|------------------|------------------|-----------------------|
| A | B | C | ! B | A C | B A && C | B ^ A | B && A C |
| False | False | False | True | False | False | False | False |
| False | False | True | True | True | False | False | True |
| False | True | False | False | False | False | False | False |
| False | True | True | False | True | True | False | True |
| True | False | False | True | True | False | False | False |
| True | False | True | True | True | True | False | True |
| True | True | False | False | True | False | True | False True |
| True | True | True | False | True | True | True | True |

Code Segment Write code that will accomplish the following (10 points):

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Write code that will do the following:

1. Get two integer numbers from the user
2. If the two numbers are equal, will display the average of the two numbers
3. If the first number is greater, will display the first number
4. If the second number is greater, will display the second number

NOTE: You will receive 5 bonus points if your solution is correct and uses only one (1) System.out.print or println statement.

```
import java.util.Scanner;

public class Quiz1 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int a = input.nextInt();
        int b = input.nextInt();
        if (a >= b) { System.out.println(a); }
        else { System.out.println(b); }
    }
}
```

2

2

4

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