



Engineering Programming

COE 212

Fall 2014

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Quiz 1 – G2

Student name & ID:.....

Problem I: Short **True** of **False** questions

1. The output of the following statement is: 3
`System.out.print((int) 2 * 3.5 / 2) ;`
Answer: True **False**
2. Any error detected by the compiler is called a run-time error.
Answer: True **False**
3. The type of result produced by an arithmetic expression in Java depends on the types of the operands.
Answer: **True** False
4. Arithmetic expressions in Java are always evaluated from left to right.
Answer: True **False**
5. The assignment operator has a lower precedence than the postfix increment operator in the following statement: `y = a++;`
Answer: True **False**

Problem II: Multiple choice questions

For each of the following questions, choose the single right answer.

1. Which of the following correctly computes: 1005.0?
 - a. `double result = 5.0 + 10^3;`
 - b. `double result = 5 + 10 * (10 * 10);`**
 - c. `double result = ((10.0 * 10.0) + 5.0) * 10.0;`
 - d. None of the above

2. Which of the following is a variable **declaration statement**?
- a. **boolean test;**
 - b. public static void main(String[] args)
 - c. a = 2;
 - d. // char letter;
3. What output is produced by the following Java statement:
System.out.print(11 + 9 + " ");
- a. **20**
 - b. 11 9
 - c. 115
 - d. None of the above

Problem III: Long **True** of **False** questions

1. Which of the following are false:
- a. **The following expressions results in a value of zero: 4 / 2 / 2**
 - b. **The following is a variable declaration statement: Boolean test;**
 - c. **When executing the following statement:
System.out.println ("My name is "James" and I like hiking");
the system generates a run time error message.**
 - d. The following code fragment stores value 45.6 in variable a:
float a = (float)45.6;

Problem IV: Code Analysis

Consider the following statements:

```
int result, a=5, b=2, c=3, d=4;  
result = d + a-- * (--a + a) + --b % ++a;
```

What are the **values** of each of the variables: a, b, c, d, and result, after the above statements execute?

```
a= 4  
b=1  
c=3  
d=4  
result=35
```

Good luck!