## Academia JAVA Xideral Examen Semana 1 Citlali Naomi Franco Chan Mérida, Yucatán

1.	Which of the following Java operators can be used with
	boolean variables? (Choose all that apply.)

```
1. ==
2. +
3. --
4. !
5. %
6. <=
7. Cast with (boolean)
```

2. What data type (or types) will allow the following code snippet to compile? (Choose all that apply.)

```
1. byte apples = 5;
2. short oranges = 10;
3. _____ bananas = apples + oranges;
1. int
2. long
3. boolean
```

- 4. double
- 5. short
- 6. byte
- 3. What change, when applied independently, would allow the following code snippet to compile? (Choose all that apply.)

```
3: long ear = 10;
4: int hearing = 2 * ear;
```

- 1. No change; it compiles as is.
- 2. Cast ear on line 4 to int.
- 3. Change the data type of ear on line 3 to short.
- 4. Cast 2 \* ear on line 4 to int.
- 5. Change the data type of hearing on line 4 to short.
- 6. Change the data type of hearing on line 4 to long.

6. What is the output of the following program?

```
1: public class CandyCounter {
 2: static long addCandy(double fruit, float
vegetables) {
         return (int) fruit+vegetables;
 3:
 4:
 5:
 6: public static void main(String[] args) {
 7:
          System.out.print(addCandy(1.4, 2.4f) + "-
");
          System.out.print(addCandy(1.9, (float)4)
 8:
+ "-");
         System.out.print(addCandy((long)(int)
(short)2, (float)4)); } }
```

- 1. 4-6-6.0
- 2. 3-5-6
- 3.3-6-6
- 4. 4-5-6
- 5. The code does not compile because of line 9.
- 6. None of the above
- 9. What are the unique outputs of the following code snippet? (Choose all that apply.)

```
int a = 2, b = 4, c = 2;
System.out.println(a > 2 ? --c : b++);
System.out.println(b = (a!=c ? a : b++));
System.out.println(a > b ? b < c ? b : 2 : 1);</pre>
```

- **1.** 1
- **2.** 2
- **3.** 3
- **4.** 4
- **5.** 5
- **6.** 6
- 7. The code does not compile.

17. Given the following code snippet, what is the value of the variables after it is executed? (Choose all that apply.)

```
int ticketsTaken = 1;
int ticketsSold = 3;
ticketsSold += 1 + ticketsTaken++;
ticketsTaken *= 2;
ticketsSold += (long)1;
```

- 1. ticketsSold is 8
- 2. ticketsTaken is 2
- 3. ticketsSold is 6
- **4.** ticketsTaken is 6
- 5. ticketsSold is 7
- 6. ticketsTaken is 4
- 7. The code does not compile.