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CS 1331 Practice

Fall 2016

1. **Multiple Choice** Circle the letter of the correct choice.

[2] (a) The reserved word used for the lower class in the inheritance hierarchy is
   A. Inherits
   B. Extends
   C. Receives
   D. Implements

[2] (b) The type of relationship that exists in inheritance is
   A. Has-a
   B. Can-be
   C. Will-be
   D. Is-a

[2] (c) True or False: Java supports multiple inheritance.
   A. True
   B. False
   C. Only if both inherited classes are abstract classes.

[2] (d) When a class hides information from its users it is taking part in a process known as ___
   A. Abstraction
   B. Instantiation
   C. Encapsulation
   D. Inheritance
   E. Polymorphism

[2] (e) Given the following enum class and a variable myTA that has been declared to be of that class: public enum TA { HEATHER, LEO, MARK, SHYAMAL, YASH } What should be placed in a conditional statement to correctly check if myTA is Mark?
   A. myTA == MARK
   B. new TA(MARK)
   C. myTA == TA.MARK
   D. myTA == new TA("MARK")
   E. myTA.equals("MARK")

[2] (f) Car c = new Car(); is an example of what? Choose the best answer
   A. Abstraction
   B. Instantiation
   C. Encapsulation
   D. Inheritance
   E. Polymorphism

[2] (g) Assume the following code has been executed:

```
int[] nums = {3, 1, 4, 1, 5, 9};
int[] numsCopy = nums;
int[] otherNums;
nums[3] = 7;
numsCopy[3] = 9;
```

What is the value of nums[3] ?

A. 7
B. 4
C. 9
D. 1

[2] (h) Now assume that this line of code has been run (after the above code has run):

```
nums[4] = numsCopy[4] * 2;
```

What is the value of numsCopy[4] ?

A. 5
B. 10
C. 18
D. 9

[2] (i) Next, the following line of code is run:

```
otherNums = new int[6];
for(int i = 0; i < nums.length; i++) {
    otherNums[i] = nums[i];
}
otherNums[5] = 6;
nums[5] = 2;
```

Which of the following are true?

A. otherNums[5] == 2 && numsCopy[5] == 6
B. otherNums[5] == 6 && numsCopy[5] == 9
C. otherNums[5] == 2 && numsCopy[5] == 2
D. otherNums[5] == 6 && numsCopy[5] == 2