

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`**