CS6312: Program Construction II [S18]

QUIZ NAVIGATION

1	2	3	4	5	6
7	8	9	10		

Show one page at a time

Finish review

Started on	Sunday, January 28, 2018, 11:59 AM
State	Finished
Completed on	Sunday, January 28, 2018, 12:09 PM
Time taken	10 mins
Grade	**10.00** out of 10.00 (**100%**)

Question 1
Correct
1.00 points out of 1.00
⚐ Flag question

A instance of a subclass is also an instance of its superclass.

Select one:
- ○ a. false
- ● b. true ✓

Question 2
Correct
1.00 points out of 1.00
⚐ Flag question

What is the output of running class C?

```
class A {
    public A() {
        System.out.println(
            "The default constructor of A is invoked");
    }
}

class B extends A {
    public B() {
        System.out.println(
            "The default constructor of B is invoked");
    }
}

public class C {
    public static void main(String[] args) {
        B b = new B();
    }
}
```

Select one:
- ○ a. "The default constructor of B is invoked" "The default constructor of A is invoked"
- ○ b. "The default constructor of B is invoked"
- ● c. "The default constructor of A is invoked" "The default constructor of B is invoked" ✓
- ○ d. Nothing displayed
- ○ e. "The default constructor of A is invoked"

Question 3
Correct
1.00 points out of 1.00
⚐ Flag question

Which of the following is incorrect?

Select one:
- ○ a. A constructor may invoke a static method.
- ○ b. A constructor invokes its superclass no-arg constructor by default if a constructor does not invoke an overloaded constructor or its superclass's constructor.
- ○ c. A constructor may invoke an overloaded constructor.
- ○ d. A constructor may be private.
- ● e. A constructor may be static. ✓

Question 4
Correct
1.00 points out of 1.00
⚐ Flag question

In OOP, you declare a class that extends another class. This is called _____.

Select one:
- ● a. inheritance ✓
- ○ b. abstraction
- ○ c. polymorphism
- ○ d. encapsulation

Question 5
Correct
1.00 points out of 1.00
⚐ Flag question

Consider the following declaration for a class A.

```
class A {
    private int x;
    private int y;

    public A(int x, int y) {
        this.x = x;
        this.y = y;
    }
}
```

Class B is a subclass of A. Which of the following can be constructors in B?

```
I:
public B() {
}

II:
public B(int x, int y) {
    super(x, y);
}

III:
public B() {
    super(0, 0);
}

IV:
public B(int x, int y) {
    this.x = x;
    this.y = y;
}
```

Select one or more:
- ☑ a. II ✓
- ☐ b. I
- ☑ c. IV ✗
- ☑ d. III ✓

Question 6
Correct
1.00 points out of 1.00
⚐ Flag question

Object-oriented programming allows you to derive new classes from existing classes. This is called _____.

Select one:
- ● a. inheritance ✓
- ○ b. generalization
- ○ c. abstraction
- ○ d. encapsulation

Question 7
Correct
1.00 points out of 1.00
⚐ Flag question

Analyze the following code:

```
public class Test extends A {
    public static void main(String[] args) {
        Test t = new Test();
        t.print();
    }
}

class A {
    String s;

    A(String s) {
        this.s = s;
    }

    public void print() {
        System.out.println(s);
    }
}
```

Select one or more:
- ☐ a. The program does not compile because Test does not have a default constructor Test().
- ☐ b. The program compiles, but it has a runtime error due to the conflict on the method name print.
- ☑ c. The program would compile if a default constructor A() { } is added to class A explicitly. ✓
- ☑ d. The program has an implicit default constructor Test(), but it cannot be compiled, because its super class does not have a default constructor. The program would compile if the constructor in the class A were removed. ✓

Question 8
Correct
1.00 points out of 1.00
⚐ Flag question

The order in which modifiers appear before a class or a method is important.

Select one:
- ○ a. true
- ● b. false ✓

Question 9
Correct
1.00 points out of 1.00
⚐ Flag question

Superclasses contain more features than their subclasses.

Select one:
- ○ a. true
- ● b. false ✓

Question 10
Correct
1.00 points out of 1.00
⚐ Flag question

Given two reference variables t1 and t2, if t1.equals(t2) is true, t1 == t2 _____.

Select one:
- ● a. may be true or false ✓
- ○ b. is always true
- ○ c. is always false

Finish review