Java 111 Chapter 7 (from version 1)   Total Questions: 13

Most Correct Answers: **#9**   Least Correct Answers: **#2**

1. **A subclass inherits all the fields and methods from its superclass.**

6/8 (A) True

1/8 (B) False

2. **Which of the following are true?**

4/8 (A) You can write a new instance method in the subclass that has the same signature as the one in the superclass, thus overriding it.

4/8 (B) You can declare new methods in the subclass that are not in the superclass.

2/8 (C) You can declare new fields in the subclass that are not in the superclass.

0/8 (D) None of the above.

3. **The 'IS-A' test can be used to determine whether an item:**

6/8 (A) is a subclass

1/8 (B) should be a method

1/8 (C) is an attribute

0/8 (D) should be overridden

4. **Considering the code, which of the following is true? public class Cat extends Animal { . . . }**

0/8 (A) Cat 'has-a' Animal

8/8 (B) Cat 'is-a' Animal

0/8 (C) Animal 'is-a' Cat

0/8 (D) Cat 'has-a' Cat

5. **A kumquat is:**

1/8 (A) An orange

1/8 (B) A Grape

2/8 (C) Both

3/8 (D) Citrus

6. A subclass can use the "extends" keyword to extend multiple superclasses.

3/8 (A) True

5/8 (B) False

7. A superclass called Fruit contains a method called display() that outputs a message to the terminal. Apple is a subclass of Fruit. Which code segment IN THE SUBCLASS Apple will successfully call that method?

2/8 (A) super.display();

5/8 (B) Fruit.display();

1/8 (C) display(Fruit);

0/8 (D) Apple.display();

8. Which of the following are true with regard to inheritance?

2/8 (A) A subclass must have methods or instance variables in its source code

6/8 (B) A subclass is can be a superclass to another class

7/8 (C) A subclass is able to override methods of a superclass

7/8 (D) A subclass inherits instance variables and methods from a superclass

9. A superclass with a method that has the same header as a subclass will override the subclass' method.

0/8 (A) True

8/8 (B) False

10. You have two classes shown below. If you run a test drive and create a Surgeon object and call the treatPatient method, what will the output be?

2/8 (A) Pop some pills

2/8 (B) Pop some pills I'm going to put you under and perform surgery

3/8 (C) I'm going to put you under and perform surgery

0/8 (D) I'm going to put you under and perform surgery Snip, Snip

```
public class Doctor {
    boolean worksAtHospital;
    void treatPatient() {
        System.out.println("Pop some pills");
    }
}
public class Surgeon extends Doctor {
    void treatPatient() {
        System.out.println("I'm going to put you under and perform surgery");
    }
    void makeIncision() {
        System.out.println("Snip, Snip");
    }
}
```

11. Method "overloading" is when:

1/8 (A) Two or more methods have the same name, and the same number and type of parameters, but different return types

2/8 (B) Two or more methods have the same name but different numbers or types of parameters

2/8 (C) A method can take any number of arguments of the same type

3/8 (D) A method calls the method of the same name of its superclass

12. Assuming the upper code is part of a Thing class and the lower code has an instance of the class called thing, what will the result be?

1/8 (A) Twice thing's value is: 40

4/8 (B) Twice thing's value is: 2020

1/8 (C) The code will not run

2/8 (D) The code will not compile

```
...
public String getValue() {
    return "20";
}
public int getValue() {
    return 20;
}
...
System.out.println("Twice thing's value is: "
        (thing.getValue() + thing.getValue()) );
...
```

13. Write the method header for a method named "playRecord" that accepts three parameters: an int for the track number, an int for the speed (rpms), and a String for the track title. The method will not return anything.

Anon anon0ba33fbf1b5a45c5

✗   public void playRecord(int trackNumber, int speedRPMs, String trackTitle) {
     }

Anon anon41f4bdf5c9e44c98

✓   public void playRecord(int trackNumber, int speed, String trackTitle)

Anon anona4f3a930657e4b67

     public void playRecord (int track, int speed, String title) {
     //do stuff, System.out.println(...)
✗   }

Anon anoncf86babd3f974340

     public void playRecord(int trackNumber, int speed, String trackTitle) {

✗   }

Anon anond60c48170d454fdc

     public void playRecord(int trackNumber,int speed,String trackTitle) {

✗   }

Anon anone0bf27e7f8844106

     public void playRecord(int trackNumber, int rpms, String trackTitle) {

✗   }

Anon anone1f419c0b19340d9

✗   public void playRecord(int trackNumber, int speed, Sting trackTitle){...}

Anon anone5a2b898bcdd46ea

✗   void playRecord(int trackNumber, int speed, String trackTitle)