

CS6312: Program Construction II [S18]

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Started on	Saturday, February 3, 2018, 7:20 PM
State	Finished
Completed on	Saturday, February 3, 2018, 7:30 PM
Time taken	9 mins 44 secs
Grade	8.00 out of 10.00 (80%)

Question 1

Correct

1.00 points out of 1.00

Flag question

If a parameter is of the java.lang.Object type, you can pass any object to it. This is known as generic programming.

Select one:

☐ a. false

☒ b. true ✓

Question 2

Correct

1.00 points out of 1.00

Flag question

Which of the following are Java keywords?

Select one:

☐ a. cast

☒ b. instanceof ✓

☐ c. casting

☐ d. instanceOf

Question 3

Correct

1.00 points out of 1.00

Flag question

A class design requires that a particular member variable must be accessible by any subclasses of this class, but otherwise not by classes which are not members of the same package. What should be done to achieve this?

Select one:

☐ a. The variable should be marked public.

☐ b. The variable should be marked private.

☐ c. The variable should have no special access modifier.

☐ d. The variable should be marked private and an accessor method provided.

☒ e. The variable should be marked protected. ✓

Question 4

Correct

1.00 points out of 1.00

Flag question

Which of the following methods override the equals method in the Object class?

Select one:

☒ a. public boolean equals(Object o) ✓

☐ b. public void equals(Object o)

☐ c. public boolean equals(SomeType o)

☐ d. public static boolean equals(Object o)

Question 5

Incorrect

0.00 points out of 1.00

Flag question

You can use the operator == to check whether two variables refer to the same object, and use the equals() method to check the equality of contents of the two objects.

Select one:

☐ a. true

☒ b. false ✗

Question 6

Correct

1.00 points out of 1.00

Flag question

Analyze the following code:

```
public class Test {
    public static void main(String[] args) {
        String s = new String("Welcome to Java");
        Object o = s;
        String d = (String)o;
    }
}
```

Select one:

☒ a. s, o, and d reference the same String object. ✓

☐ b. When casting o to s in String d = (String)o, a new object is created.

☐ c. When assigning s to o in Object o = s, a new object is created.

☐ d. When casting o to s in String d = (String)o, the contents of o is changed.

Question 7

Correct

1.00 points out of 1.00

Flag question

Given the following code:

```
class C1 {}
class C2 extends C1 {}
class C3 extends C2 {}
class C4 extends C1 {}
```

C1 c1 = new C1();
C2 c2 = new C2();
C3 c3 = new C3();
C4 c4 = new C4();

Which of the following expressions evaluates to false?

Select one:

☐ a. c1 instanceof C1

☐ b. c2 instanceof C1

☐ c. c3 instanceof C1

☒ d. c4 instanceof C2 ✓

Question 8

Incorrect

0.00 points out of 1.00

Flag question

What is the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String s1 = new String("Java");
        String s2 = new String("Java");
        System.out.print((s1 == s2) + " " + (s1.equals(s2)));
    }
}
```

Select one:

☒ a. true false ✗

☐ b. false true

☐ c. true true

☐ d. false false

Question 9

Correct

1.00 points out of 1.00

Flag question

The instanceof operator is used to determine whether an object is an instance of a certain class.

Select one:

☐ a. false

☒ b. true ✓

Question 10

Correct

1.00 points out of 1.00

Flag question

Every object is an instance of the Object class.

Select one:

☐ a. false

☒ b. true ✓

Finish review