

CS6312: Program Construction II [S18]

Home

►

My courses

►

Spring 2018

►

CS6312 [S18] [N]

►

Inheritance (Ch 11)

►

Q02

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, 11:32 AM
State	Finished
Completed on	Sunday, January 28, 2018, 11:42 AM
Time taken	10 mins 1 sec
Grade	6.00 out of 10.00 (60%)

Question 1

Correct

1.00 points out of 1.00

Flag question

If an object is an instance of class A, and class A is a subclass of class B, then the object is also an instance of class B.

Select one:

☐ a. false

☒ b. true ✓

Question 2

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) {
        new Person().printPerson();
        new Student().printPerson();
    }
}

class Student extends Person {
    private String getInfo() {
        return "Student";
    }
}

class Person {
    private String getInfo() {
        return "Person";
    }

    public void printPerson() {
        System.out.println(getInfo());
    }
}
```

Select one:

☐ a. Student Student

☒ b. Person Student ✗

☐ c. Student Person

☐ d. Person Person

Question 3

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. abstraction

☐ b. encapsulation

☐ c. polymorphism

☒ d. inheritance ✓

Question 4

Correct

1.00 points out of 1.00

Flag question

You use the keyword _____ to reference a method in the superclass from a subclass.

Select one:

☒ a. super ✓

☐ b. this

☐ c. superObject

☐ d. that

Question 5

Correct

1.00 points out of 1.00

Flag question

Analyze the following code:

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

class A {
    int i = 7;

    public A() {
        System.out.println("i from A is " + i);
    }

    public void setI(int i) {
        this.i = 2 * i;
    }
}

class B extends A {
    public B() {
        setI(20);
        // System.out.println("i from B is " + i);
    }

    public void setI(int i) {
        this.i = 3 * i;
    }
}
```

Select one:

☐ a. The constructor of class A is called and it displays "i from A is 60".

☐ b. The constructor of class A is called and it displays "i from A is 40".

☐ c. The constructor of class A is not called.

☒ d. The constructor of class A is called and it displays "i from A is 7". ✓

Question 6

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) {
        new Person().printPerson();
        new Student().printPerson();
    }
}

class Student extends Person {
    public String getInfo() {
        return "Student";
    }
}

class Person {
    public String getInfo() {
        return "Person";
    }

    public void printPerson() {
        System.out.println(getInfo());
    }
}
```

Select one:

☐ a. Person Student

☐ b. Student Person

☐ c. Student Student

☒ d. Person Person ✗

Question 7

Correct

1.00 points out of 1.00

Flag question

An interface can be a separate unit and can be compiled into a bytecode file.

Select one:

☐ a. false

☒ b. true ✓

Question 8

Not answered

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 A is invoked"

☐ b. "The default constructor of B is invoked" "The default constructor of A is invoked"

☐ c. "The default constructor of B is invoked"

☐ d. "The default constructor of A is invoked" "The default constructor of B is invoked"

☐ e. Nothing displayed

Question 9

Not answered

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. IV

☐ b. I

☐ c. III

☐ d. II

Question 10

Correct

1.00 points out of 1.00

Flag question

The set of all instances of a subclass is a subset of the instances of its superclass.

Select one:

☒ a. true ✓

☐ b. false

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