Question 1
Correct
Mark 1.00 out
of 1.00
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question

You need to do a black-box testing for a method that calculates the area of a sphere. This method received one parameter, the radius, of type double. What set of values would be used to do the black-box testing of this methods?

### Select one:

- o a. 0.0, 1.7, 4.6, 18.9, 102.3
- b. 5.7, 0.0, -435.34
- O c. -323.9, -3.2, 1.6, 48.57
- O d. 3.14, 3.1416, 3.141592

### Question **2**Correct Mark 1.00 out

of 1.00

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### Given the following code:

```
public class Person {}
public class Student extends Person {
  int id;
  public Student(int id) {
     this.id = id;
     super();
  }
}
```

### Select one:

- a. A compilation error occurs because inside the constructor of Student there is an attempt to access (by means of the super(); statement) a constructor of Person class that has not been explicitly defined.
- b. A compilation error occurs because the parameter received by the constructor of the class Student has the same name as the attribute of that class.
- c. A compilation error occurs because inside the constructor of Student it is necessary to call the constructor of Person in the first line.
- $\ \bigcirc$  d. The code does not produce compilation errors.

# Question **3**Correct Mark 1.00 out of 1.00 Flag question

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Given the following code, with each class in a separate file: which of the following assignments is correct?

```
public interface I1 {...}
public interface I2 extends I1 {...}
public class C1 implements I1 {...}
public class C2 extends C1 {...}
```

### Select one:

- a. I2 i2 = new C1();
- b. I1 i1 = new C2();
- oc. C2 c2 = new C1();
- O d. C1 c1 = new I1();

## Question 4 Correct Mark 1.00 out of 1.00 Flag

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Which of the following is the correct way to define an interface?

- a) public interface MyInterface {abstract void doSomething();}
- b) public interface MyInterface {private void doSomething();}
- c) public interface MyInterface {protected void doSomething();}
- d) public interface MyInterface {void doSomething();}

### Select one:

- a. d
- O b. a
- O c. b
- O d. c

Question **5**Correct
Mark 1.00 out of 1.00
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What is a class in Java?

Select one:

a. A method of an object

b. A blueprint for creating objects

c. An instance of an object

d. An object with private attributes only

Question 6
Correct
Mark 1.00 out of 1.00
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Given classes Animal and Cat in this hierarchy of classes, what is printed on screen? public class Animal { public void makeSound() { System.out.println("The animal makes a sound"); public class Cat extends Animal { public void makeSound() { System.out.println("Meow"); } public class Main { public static void main(String[] args) { Animal animal = new Cat(); animal.makeSound(); } Select one: a. The output will be The animal makes a sound b. The output will be Meow o. The code will not compile Od. An exception will be thrown at runtime

Question 7
Correct
Mark 1.00 out of 1.00
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Question 8
Correct
Mark 1.00 out of 1.00
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question

```
Given the following code and the test class, what line coverage is achieved?
       public class C {
               public static int m(int a){
                       if (a>0){
                               return 1;
                       } else if (a<0){
                               return -1;
                       } else{
                               return 0;
               }
       public class CTest {
               C c = new C();
               @Test
               public void test1() {
                       assertEquals(C.m(-1), -1);
               }
               @Test
               public void test2() {
                       assertEquals(C.m(0), 0);
Select one:
O a. Less than 50%
O b. 100%
O c. 50%
od. More than 50% but less than 100%
```

Question 9
Correct
Mark 1.00 out of 1.00
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```
Given the following code, what does the program print on screen?
    public class C{
       public static void main (String[] args){
           int a = 1;
           m(a);
           System.out.println(a);
        public static void m(int a){
           a++;
           n(a);
            ++a;
       }
       public static void n(int a){
           a++;
   }
Select one:
O a. 2
 O b. 4
O c. 3
d. 1
```

Question 10 The following method signature is intended to warn the calling method that it should be careful because it may Correct result in a MyException. Which keyword should be used in the space marked with ellipses? Mark 1.00 out public myMethod(int n, int m) ... MyException of 1.00 ▼ Flag question Select one: 🗘 Edit a. throws question O b. throw O c. finally O d. catch