Results

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270Out of 300 points

34:59
Time for this attempt

Your Answers:

1

10 / 10 points

What is Inheritance in Object-Oriented Programming?

- Process of hiding the implementation details from the user, only the functionality will be provided to the user. In other words, the user will have the information on what the object does instead of how it does it.
- A process that binds together the data and functions that manipulate the data and that keeps both safe from outside interference and misuse.
- Refers to the ability of a variable, function or object to take on multiple forms



An ability by which one class acquires the properties and behaviors of another class

2 10 / 10 points

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Which of these operators is used to allocate memory to the Array variable in Java?



- () alloc
- new malloc
- () malloc

3

0/10 points

What is the output of the following Java program? Please assume all classes are in the same package.

```
class A {
    String E = "extraction ";
    String T = "transformation ";
    String L = "loading ";
    final void ETL() {
        System.out.println(L + T + E);
    };
}
class B extends A {
    void ETL() {
        System.out.println(E + T + L);
    }
}
public class Main {
    public static void main(String args[]) {
        A obj = new B();
        obj.ETL();
    }
}
```

- Compile time error
- Runtime error
- extraction transformation loading
- None of the mentioned



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7

10 / 10 points

What is the output of the following Java program? Please assume all classes are in the same package.

```
class A {
    public String[] getSdlc() {
        return sdlc;
    String sdlc[] = {
            "requirement analysis",
            "design",
            "development",
            "testing",
            "implementation",
            "maintenance"
    };
class B extends A {
    public String[] getSdlc() {
        return sdlc;
    }
    private String sdlc[] = {
            "r","d","d","t","i","m"
    };
class C extends B {
    public String[] getSdlc() {
        return sdlc;
    String sdlc[] = {
```

```
"s","d","l","c"
      };
 public class Main {
      public static void main(String args[]) {
           B obj = new C();
           for (int i = 0; i < obj.getSdlc().length;</pre>
                 i++) {
                System.out.print(obj.getSdlc()[i] + "");
      }
 }
     Compile time error
     Runtime error
         o sdlc
     rddtim
     requirement analysis design development testing implementation maintenance
    10 / 10 points
8
 What is the return type of Constructors?...
    float
        No explicit return type
     int
    void
    10 / 10 points
 What is the output of the following Java program?
```

```
public class Jump_statments {
      public static void main(String args[]) {
          int x = 2;
          int y = 0;
          for (; y < 10; ++y) {
               if (y % x == 0)
                   continue;
               else if (y == 8)
                   break:
               else
                   System.out.print(y + " ");
      }
 }
     1357
    123456789
     2468
        13579
    10 / 10 points
10
 Which keyword(s) can be part of a class declaration? (check all that are correct)
     extend
        class
     switch
        ✓ implements
```

extends

11 10 / 10 points Which of the following best describes the meaning of static? The static keyword, when applied to fields, means that the field can only be accessed through instances of the class. The static keyword can be applied to class members. This implies that the class members (static ones) belong to the class, not to instances of the class. The static keyword can be applied to local variables. This implies that their values persist between calls to the method that declares the variable. When applied to a class, the static keyword implies that instances of the class are immutable. 12 10 / 10 points Which of these statements is incorrect? Abstract classes may or may not have abstract methods. Abstrac classes can have constructors. Interfaces cannot have constructors. Interfaces can be instantiated 13 10 / 10 points Which of the following modifier means a particular variable cannot be accessed from other class even within the same package? private protected public

default			
14 0 / 10 points			
What is Polymorphism In object-oriented programing?			
An ability by which one class acquires the properties and behaviors of another class			
Correct Answer: Refers to the ability of a variable, function or object to take on multiple forms			
A process that binds together the data and functions that manipulate the data and that keeps both safe from outside interference and misuse.			
Process of hiding the implementation details from the user, only the functionality will be provided to the user. In other words, the user will have the information on what the object does instead of how it does it.			
Refers to the ability of a variable, function or object to take on multiple forms			
15 10 / 10 points			
IS-A relationship in Java is related to -			
✓			
Encapsulation			
Composition			
None of the mentioned			
16 10 / 10 points			
The fields/variables in an interface are implicitly specified as -			
static only			
final only			

Integer



static and final

17

10 / 10 points

What is the process of defining more than one method in a class differentiated by method signature?





Method Overloading

- Method Overlapping
- Method Overriding
- **Method Overwriting**

18

10 / 10 points

What is the output of the following Java program? Please assume all classes are in the same package.

```
class A {
    void ETL() {
        String E = "mySQL";
        String T = "Sqoop";
        String L = "hdfs";
        System.out.println(E + T + L);
    };
    void ETL(String ETL) {
        System.out.println(ETL.toUpperCase());
    void ETL(String E, String T, String L) {
        System.out.println(E + T + L);
public class Main {
    public static void main(String args[]) {
        String E = "extraction1";
```

```
String T = "transformation2";
            String L = "loading3";
            A obj = new A();
            obj.ETL(E + T + L);
       }
  }
     mySQLSqoophdfs
         EXTRACTION1TRANSFORMATION2LOADING3
     extraction1transformation2loading3
     EXTRACTION1 TRANSFORMATION2 LOADING3
19
     0 / 10 points
 What is Autoboxing?
     A mechanism of Abstraction
     when a primitive value is automatically converted to its matching wrapper class
     object
     A mechanism of wrapping the data (variables) and code acting on the data (methods)
     together as a single unit
         when an object of a wrapper class is automatically converted to its matching
    X
            primitive value
              when a primitive value is automatically converted to its matching wrapper class
  Correct An-
  swer:
              object
20
     10 / 10 points
  Java does not support
         Multiple inheritance for classes
     Interface
```

(Method	Overriding

Polymorphism

21

10 / 10 points

What is the most likely output of this program?

```
public class Main {
    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer("135");
        sb.replace(0, 5, "6789").insert(0, "12345");
        System.out.println(sb.reverse().delete(0, 5));
    }
}
```

- StringIndexOutOfBoundsException
- 123456789
- 6789





3 4321

22

10 / 10 points

How many copies of static (class) variables and instance variables are created when 10 objects are created of a class?





1, 10

- () 10,1
- 0 10, 10
- **1,1**

23 10 / 10 points
If a class of a Java program has a plural number of methods, and all of them have the same name but different parameters (with a change in type or number of arguments), then it is known as method overloading.
✓
False
24 10 / 10 points
What is Truncation for numeric variables in Java?
Floating-point value assigned to an Floating type
Integer value assigned to floating type
Floating-point value assigned to an integer type
None of the Mentioned
25 10 / 10 points
Which of the following loops will execute the body of loop even when condition controlling the loop is initially false?
while
O None of the above
odo-while
○ for
26 10 / 10 points

In Java, what is the difference between the String Class and the StringBuffer Class?			
No difference, the two classes are equivalent.			
StringBuffer is the parent/super case of String.			
A String is immutable, if you try to alter its value, another object gets created. A StringBuffer is mutable so it can change its value.			
A StringBuffer is immutable, if you try to alter its value, another object gets created. A String is mutable so it can change its value.			
27 10 / 10 points			
Which of the following is a valid declaration of an object of class Box?			
obj = new Box();			
Box obj = new Box;			
Box obj = new Box();			
O Box new obj;			
28 10 / 10 points			
Given these code snippets:			
<pre>public abstract class Mineral { // define abstract methods for origin, hardness and appearance. }</pre>			
<pre>public class Diamond extends Mineral { // implement origin, hardness and appearance methods. }</pre>			
Is the following assignment valid? Diamond d = new Mineral();			



YES

29

10 / 10 points

What is the output of the following program? Assume that each class is correctly declared in its own file and that the main method of Chemistry is the JVM entry point. Please assume all classes are in the same package.

```
public class Element {
    public String appearance() {
        return "OVERRIDE THIS METHOD";
public class Iodine extends Element {
    @Override public String appearance() {
        return "lustrous, purple-black non- metallic solid";
public class Chemistry {
    public static void main(String[] args) {
        Element e = new Iodine():
        System.out.println(e.appearance());
    }
}
```

- **OVERRIDE THIS METHOD**
- The program will not compile because Iodine is not an Element.
- OVERRIDE THIS METHOD lustrous, purple-black non-metallic solid



lustrous, purple-black non-metallic solid

30

10 / 10 points

What is the most likely output of this program?

```
public class Main {
        public static void main(String[] args) {
            StringJoiner sj1 = new StringJoiner(":", "{", "}");
            StringJoiner sj2 = new StringJoiner(",", "[", "]");
            sj1.add("Name").add("Tony");
            sj2.add("LastName").add("Strak");
            System.out.println(sj1.merge(sj2).toString());
      }
}
```

- Unresolved compilation problem: The method merge(":", "{", "}") in the type StringJoiner is not applicable for the arguments (",", "[", "]")
- {[LastName,Strak,Name:Tony]}
- {Name:Tony:[LastName,Strak]}



{Name:Tony:LastName,Strak}