

CTS-JAVA-SE Test

94% (16/17)

```
    public abstract class Shape {

private int x;
private int y;
public abstract void draw();
public void setAnchor(int x, int y) {
this.x = x;
this.y = y;
Which two classes use the Shape class correctly? (Choose two.)
    public class Circle implements Shape {
     private int radius;
    public abstract class Circle extends Shape {
     private int radius;
(c) public class Circle extends Shape {
     private int radius;
     public void draw();
    public abstract class Circle implements Shape {
     private int radius;
     public void draw();
    public class Circle extends Shape {
     private int radius;
     public void draw() {/* code here */}
    public abstract class Circle implements Shape {
     private int radius;
     public void draw() {/* code here */}
```

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```
Which statement is true about the classes and interfaces in the exhibit?
01. public interface A {
02. public void doSomething(String thing);
03.}
01. public class Almpl implements A {
02. public void doSomething(String msg) {}
03. }
01. public class B {
02. public A doit(){
03. //more code here
04.}
05. public String execute(){
06 //more code here
07}
08.}
01. public class C extends B {
02. public Almpl doit(){
03. //more code here
04.}
05.
06. public Object execute() {
07. //more code here
08.}
09.}
Α `
    Compilation will succeed for all classes and interfaces.
   Compilation of class C will fail because of an error in line 2.
    Compilation of class C will fail because of an error in line 6.
    Compilation of class Almpl will fail because of an error in line 2.
```

3. Given:

```
public static void parse(String str) {
  try {
  float f = Float.parseFloat(str);
  } catch (NumberFormatException nfe) {
  f = 0;
  } finally {
  System.out.println(f);
  }
  public static void main(String[] args) {
  parse("invalid");
  }
  What is the result?
```

(A) 0.0

B Compilation fails.

C A ParseException is thrown by the parse method at runtime.

D A NumberFormatException is thrown by the parse method at runtime.

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```
4. Given:
01. public class Blip {
02. protected int blipvert(int x) { return 0; }
03.}
04. class Vert extends Blip {
05. // insert code here
06.}
Which five methods, inserted independently at line 5, will compile? (Choose five.)
    public int blipvert(int x) { return 0; }
    private int blipvert(int x) { return 0; }
в)
    private int blipvert(long x) { return 0; }
    protected long blipvert(int x) { return 0; }
    protected int blipvert(long x) { return 0; }
    protected long blipvert(long x) { return 0; }
    protected long blipvert(int x, int y) { return 0; }
5. public class TestString1 {
public static void main(String[] args) {
String str = "420";
str += 42:
System.out.print(str);
What is the output?
    42
    420
    462
    42042
    Compilation fails.
    An exception is thrown at runtime.
```

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- 6. Given:
  23. Object [] myObjects = {
  24. new Integer(12),
  25. new String("foo"),
  26. new Integer(5),
  27. new Boolean(true)
  28. };
  29. Arrays.sort(myObjects);
  30. for(int i=0; i<myObjects.length; i++) {
  31. System.out.print(myObjects[i].toString());
  32. System.out.print(" ");
  33. }
  What is the result?

  A Compilation fails due to an error in line 23.
  - (B) Compilation fails due to an error in line 29.
  - A ClassCastException occurs in line 29.
  - $\bigcirc$  A ClassCastException occurs in line 31.
  - (E) The value of all four objects prints in natural order.

## 7. Which statement is true?

- (A) A class's finalize() method CANNOT be invoked explicitly.
- B super.finalize() is called implicitly by any overriding finalize() method.
- The finalize() method for a given object is called no more than once by the garbage collector.
- D The order in which finalize() is called on two objects is based on the order in which the two objects became finalizable.

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```
8. import java.util.*;
public class Mapit {
public static void main(String[] args) {
Set<Integer> set = new HashSet<Integer>();
Integer i1 = 45;
Integer i2 = 46;
set.add(i1);
set.add(i1);
set.add(i2); System.out.print(set.size() + " ");
set.remove(i1); System.out.print(set.size() + " ");
set.remove(i2); System.out.print(set.size() + " ");
What is the result?
A) 210
   2 1 1
   321
D) 322
E) Compilation fails.
    An exception is thrown at runtime.
9. class Employee{
@Override
public void finalize(){
System.out.println("Finallize method got called");
class Test{
@Override
public void finalize(){
System.out.println("Finallize method got called");
public static void main(String[] args){
Employee emp=new Employee();
String str=new String("Abc");
System.gc();
Select One correct option
    Finalize method of Employee executed
В
    Finalize method of Test executed
    No classes Finalize method got called
    Finalize method cannot be overridden in Test class. Because Test is not sub class of Employee
```

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```
10. interface DoStuff2 {
float getRange(int low, int high);
interface DoMore {
float getAvg(int a, int b, int c);
abstract class DoAbstract implements DoStuff2, DoMore {
06. class DoStuff implements DoStuff2 {
07. public float getRange(int x, int y) {
08. return 3.14f;
09.}
10.}
11.
12. interface DoAll extends DoMore {
13. float getAvg(int a, int b, int c, int d);
14.}
What is the result?
    The file will compile without error.
    Compilation fails. Only line 7 contains an error.
    Compilation fails. Only line 12 contains an error.
    Compilation fails. Only line 13 contains an error.
    Compilation fails. Only lines 7 and 12 contain errors.
11. What is the output of this program?
class Test {
int a;
public int b;
private int c;
class AcessTest {
public static void main(String args[])
Test ob = new Test();
ob.a = 10;
ob.b = 20;
ob.c = 30;
System.out.println(" Output :a, b, and c" + ob.a + " " + ob.b + " " + ob.c);
    Compilation error
    Run time error
В
    Output: a, b and c 10 20 30
C
```

None of the mentioned

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```
12. public class BuildStuff {
public static void main(String[] args) {
Boolean test = new Boolean(true);
Integer x = 343;
Integer y = new BuildStuff().go(test, x);
System.out.println(y);
int go(Boolean b, int i) {
if(b) return (i/7);
return (i/49);
What is the result?
    49
C
    343
    Compilation fails.
    An exception is thrown at runtime.
13. Given:
import java.io.*;
public class Forest implements Serializable {
public static void main(String [] args) {
Tree t = new Tree();
try {
FileOutputStream fs = new FileOutputStream("Forest.ser");
ObjectOutputStream os = new ObjectOutputStream(fs);
os.writeObject(t);
os.close();
} catch (Exception ex) {
ex.printStackTrace();
class Tree {
What is the result?
   Compilation fails.
    An exception is thrown at runtime.
    An instance of Forest is serialized.
```

An instance of Forest and an instance of Tree are both serialized.

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```
14. class Test{
public static void main(String[] args){
String test = "This is a test";
12. String[] tokens = test.split("\s");
13. System.out.println(tokens.length);
What is the result?
    Compilation fails.
```

## 15. Analyze the following code:

```
class Test {
public static void main(String[] args) {
try {
String s = "5.6";
Integer.parseInt(s); // Cause a NumberFormatException
int i = 0:
int y = 2 / i;
catch (Exception ex) {
System.out.println("NumberFormatException");
catch (RuntimeException ex) {
System.out.println("RuntimeException");
```

- The program displays NumberFormatException.
- The program displays RuntimeException.
- The program displays NumberFormatException followed by RuntimeException.
- The program has a compilation error.

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```
16. Given:
20. public class CreditCard {
22. private String cardID;
23. private Integer limit;
24. public String ownerName;
26. public void setCardInformation(String cardID,
27. String ownerName,
28. Integer limit) {
29. this.cardID = cardID;
30. this.ownerName = ownerName;
31. this.limit = limit;
32.}
33.}
Select one correct option from following
 A) The class is fully encapsulated.
    The code demonstrates polymorphism.
    The ownerName variable breaks encapsulation.
    The cardID and limit variables break polymorphism.
     The setCardInformation method breaks encapsulation.
17. Given:
11. public interface Status {
12. /* insert code here */ int MY VALUE = 10;
13.}
Which three are valid on line 12? (Choose three.)
    final
    static
    native
    public
     private
    abstract
```

protected

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