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**Exam** : **1z0-501**

**Title** : Java Certified Programmer

**Vendor** : Oracle

**Version** : DEMO

**NO.1** Given:

```
1 . public class test (  
2 . public static void main (String args[]){  
3 .int i = 0xFFFFFFFF1;  
4 .int j = ~i;  
5 .  
6 .}  
7 . )
```

What is the decimal value of j at line 5?

- A.** 0
- B.** 1
- C.** 14
- D.** -15
- E.** An error at line 3 causes compilation to fail.
- F.** An error at line 4 causes compilation to fail.

**Answer:** C

**NO.2** Given:

```
Integer i = new Integer (42);  
Long l = new Long (42);  
Double d = new Double (42.0);  
Which two expressions evaluate to True? (Choose Two)
```

- A.** (i == 1)
- B.** (i == d)
- C.** (d == 1)
- D.** (i.equals (d))
- E.** (d.equals (i))
- F.** (i.equals (42))

**Answer:** D,E

**NO.3** Exhibit:

```
1 . public class test (  
2 .private static int j = 0;  
3 .  
4 .private static boolean methodB(int k) (  
5 .j += k;  
6 .return true;  
6 . )  
7 .  
8 . public static void methodA(int i) {  
9 .boolean b:  
10 .b = i < 10 | methodB (4);  
11 .b = i < 10 || methodB (8);  
12 .}  
13 .
```

```
1 4.public static void main (String args[] ){
1 5.methodA (0);
1 6.system.out.println(j);
1 7.)
1 8.)
```

What is the result?

- A. The program prints "0"
- B. The program prints "4"
- C. The program prints "8"
- D. The program prints "12"
- E. The code does not complete.

**Answer:** B

#### **NO.4** CORRECT TEXT

Given

```
1 . Public class test (
2 .Public static void main (String args[])(
3 .System.out.println (6 ^ 3);
4 .)
5 .)
```

What is the output?

**Answer:** 5

#### **NO.5** Given:

```
1. public class Foo {
2 . public static void main (String [] args){
3 .StringBuffer a = new StringBuffer ("A");
4 .StringBuffer b = new StringBuffer ("B");
5 .operate (a,b);
6 .system.out.println{a + "," +b};
7 .)
8 . static void operate (StringBuffer x, StringBuffer y){
9 .x.append {y};
1 0.y = x;
1 1.)
1 2.}
```

What is the result?

- A. The code compiles and prints "A,B".
- B. The code compiles and prints "A,A".
- C. The code compiles and prints "B,B".
- D. The code compiles and prints "AB,B".
- E. The code compiles and prints "AB,AB".
- F. The code does not compile because "+" cannot be overloaded for StringBuffer.

**Answer:** D

**NO.6** CORRECT TEXT

Exhibit:

```
1 . Public class test (  
2 . Public static void stringReplce (String text)(  
3 .Text = text.replace ('j' , 'i');  
4 . )  
5 .  
6 . public static void bufferReplce (StringBuffer text)(  
7 .text = text.append ("C")  
8 . )  
9 .  
10 . public static void main (String args[]) (  
11 .String textString = new String ("java");  
12 .StringBuffer text BufferString = new StringBuffer ("java");  
13 .  
14 .stringReplce (textString);  
15 .BufferReplce (textBuffer);  
16 .  
17 .System.out.println (textString + textBuffer);  
18 .}  
19 .)
```

What is the output?

**Answer:** JAVAJAVA**NO.7** Exhibit:

```
1 . public class test {  
2 .public static void add3 (Integer i )  
3 .int val = i.intValue ();  
4 .val += 3;  
5 .i = new Integer (val);  
6 .}  
7 .  
8 . public static void main (String args [ ]){  
9 .Integer i = new Integer (0);  
10 .add3 (i);  
11 .system.out.println (i.intValue ());  
12 .}  
13 .)
```

What is the result?

**A.** Compilation will fail.**B.** The program prints "0".**C.** The program prints "3".**D.** Compilation will succeed but an exception will be thrown at line 3.**Answer:** B**NO.8** Given:

```
1 . public class ConstOver {  
2 . public ConstOver (int x, int y, int z){  
3 . }  
4 . }
```

Which two overload the ConstOver constructor? (Choose Two)

- A. ConstOver () { }
- B. Protected int ConstOver () { }
- C. Private ConstOver (int z, int y, byte x) { }
- D. Public Object ConstOver (int x, int y, int z) { }
- E. Public void ConstOver (byte x, byte y, byte z) { }

**Answer:** A,C

**NO.9** Given:

```
1 . public class MethodOver{  
2 .public void setVar (int a, int b, float c){  
3 . }  
4 . }
```

Which two overload the setVar method? (Choose Two)

- A. Private void setVar (int a, float c, int b){ }
- B. Protected void setVar (int a, int b, float c) { }
- C. Public int setVar (int a, float c, int b) (return a;)
- D. Public int setVar (int a, int b, float c) (return a;)
- E. Protected float setVar (int a, int b, float c) (return c;)

**Answer:** A,C

**NO.10** Given:

```
1. class BaseClass {  
2. Private float x = 1.0f ;  
3. protected float getVar () ( return x;)  
4. }  
5 . class Subclass extends BaseClass (  
6 .private float x = 2.0f;  
7 .//insert code here  
8 . )
```

Which two are valid examples of method overriding? (Choose Two)

- A. Float getVar () { return x;}
- B. Public float getVar () { return x;}
- C. Float double getVar () { return x;}
- D. Public float getVar () { return x;}
- E. Public float getVar (float f) { return f;}

**Answer:** B,D

**NO.11** Which two demonstrate an "is a" relationship? (Choose Two)

- A. public interface Person { }

```
public class Employee extends Person { }
```

**B.** public interface Shape { }

```
public class Employee extends Shape { }
```

**C.** public interface Color { }

```
public class Employee extends Color { }
```

**D.** public class Species { }

```
public class Animal (private Species species;)
```

**E.** interface Component { }

```
Class Container implements Component (
```

```
Private Component[ ] children;
```

```
)
```

**Answer:** D,E

**NO.12** Which statement is true?

**A.** An anonymous inner class may be declared as final.

**B.** An anonymous inner class can be declared as private.

**C.** An anonymous inner class can implement multiple interfaces.

**D.** An anonymous inner class can access final variables in any enclosing scope.

**E.** Construction of an instance of a static inner class requires an instance of the enclosing outer class.

**Answer:** D

**NO.13** Given:

```
1 . package foo;
```

```
2 .
```

```
3 . public class Outer (
```

```
4 .public static class Inner (
```

```
5 .)
```

```
6 .)
```

Which statement is true?

**A.** An instance of the Inner class can be constructed with "new Outer.Inner ()"

**B.** An instance of the inner class cannot be constructed outside of package foo.

**C.** An instance of the inner class can only be constructed from within the outer class.

**D.** From within the package bar, an instance of the inner class can be constructed with "new inner()"

**Answer:** A

**NO.14** Exhibit:

```
1 . public class enclosingone (
```

```
2 . public class insideone{
```

```
3 . )
```

```
4 . public class inertest(
```

```
5 . public static void main (string[]args)(
```

```
6 . enclosingone eo= new enclosingone ();
```

```
7 . //insert code here
```

```
8 . )
```

9 . )

Which statement at line 7 constructs an instance of the inner class?

- A. InsideOne ei= eo.new InsideOn();
- B. Eo.InsideOne ei = eo.new InsideOne();
- C. InsideOne ei = EnclosingOne.new InsideOne();
- D. EnclosingOne.InsideOne ei = eo.new InsideOne();

**Answer:** D

**NO.15** Exhibit:

```
1 . interface foo {
2 . int k = 0;
3 . ]
4 .
5 . public class test implements Foo (
6 . public static void main(String args[]) (
7 . int i;
8 . Test test = new test ();
9 . i= test.k;
10.i= Test.k;
11.i= Foo.k;
12.)
13.)
14.
```

What is the result?

- A. Compilation succeeds.
- B. An error at line 2 causes compilation to fail.
- C. An error at line 9 causes compilation to fail.
- D. An error at line 10 causes compilation to fail.
- E. An error at line 11 causes compilation to fail.

**Answer:** A

**NO.16** Given:

```
1 . //point X
2 . public class foo (
3 . public static void main (String[]args) throws Exception {
4 . PrintWriter out = new PrintWriter (new
5 . java.io.OutputStreamWriter (System.out), true;
6 . out.println("Hello");
7 . }
8 . )
```

Which statement at PointX on line 1 allows this code to compile and run?

- A. Import java.io.PrintWriter;
- B. Include java.io.PrintWriter;
- C. Import java.io.OutputStreamWriter;
- D. Include java.io.OutputStreamWriter;

E. No statement is needed.

**Answer:** A

**NO.17** Which two statements are reserved words in Java? (Choose Two)

A. Run

B. Import

C. Default

D. Implement

**Answer:** B,C

**NO.18** Which three are valid declarations of a float? (Choose Three)

A. Float foo = -1;

B. Float foo = 1.0;

C. Float foo = 42e1;

D. Float foo = 2.02f;

E. Float foo = 3.03d;

F. Float foo = 0x0123;

**Answer:** A,D,F