1Z0-851 Oracle Certified Professional, Java SE 6 Programmer

Exam A

QUESTION 1

Given:

```
35. String #name = "Jane Doe";
```

- 36. int \$age = 24;
- 37. double _height = 123.5;
- 38. double \sim temp = 37.5;

Which two are true? (Choose two)

- A. Line 35 will not compile
- B. Line 36 will not compile
- C. Line 37 will not compile
- D. Line 38 will not compile

Correct Answer: AD

QUESTION 2

Which are valid declarations? (Choose all that apply)

- A. int \$x;
- B. int 123;
- C. int _123;
- D. int #dim;
- E. int %percent;
- F. int *divide;
- G. int central_sales_region_Summer_2005_gross_sales;

Correct Answer: ACG

QUESTION 3

The given code will compile without errors.

float f = 4.5;

- A. True
- B. False

Correct Answer: B

QUESTION 4

The code given bellow will not compile

double d = 102.34D;

- A. True
- B. False

Correct Answer: B

QUESTION 5

Which of the given options will compile? (Select all that apply)

- A. char c = null;
- B. char c = 0;
- C. char c = '0';

Correct Answer: BC

QUESTION 6

Which of the given code fragments will compile without errors? (Select all that apply)

```
A. int i = true;
B. float b = 0;
C. double d = -1;
D. float s = 1.2;
```

Correct Answer: BC

QUESTION 7

Which of the given code snippets will compile? (Select all that apply)

```
A. long id = 6; int i = id;
B. float f = 6.32f; int i = f;
C. char c = 'A'; int i = c;
D. int i = 0; byte b = (byte)i;
```

Correct Answer: CD

QUESTION 8

Which of the given options is a legal assignment? (Select all that apply)

```
A. double d = 1.4;B. double d = 1.3D;C. double d = 1.2d;D. All of the above
```

Correct Answer: D

QUESTION 9

Which of the given code fragments will not compile? (Select all that apply)

```
A. byte a = 128;
B. byte b = 100;
b *= 1;
C. byte b = 1;
b = b+1;
D. int i= 128;
```

Correct Answer: AC

QUESTION 10

Given:

Which, inserted independently at line 1, compiles? (Choose all that apply.)

- A. import static java.lang;
- B. import static java.lang.Integer;
- C. import static java.lang.Integer.*;
- D. import static java.lang.Integer.* VALUE;
- E. import static java.lang.Integer.MAX VALUE;
- F. None of the above statements are valid import syntax

Correct Answer: CE

QUESTION 11

Given:

```
1. // insert code here
2. public class TestStaticImport {
3.    public static void main(String[] args) {
4.         out.println(MAX_VALUE);
5.         out.println(toHexString(42));
6.    }
7. }
```

Which, inserted independently at line 1, compiles? (Choose all that apply.)

- A. import java.lang.*;
- B. import static java.lang.Integer.*;
- C. import java.lang.System;
- D. import static java.lang.System.out;
- E. static import java.lang.System.*;
- F. import java.lang.System.*;
- G. import java.lang.Integer.toHexString;

Correct Answer: BD

QUESTION 12

Given a class Repetition:

```
package utils;
public class Repetition {
    public static String twice(String s) { return s + s; }
}
and given another class Demo:

01. public class Demo {
    public static void main(String[] args) {
        System.out.println(twice("pizza"));
        04.     }
        05. }
```

Which code should be inserted at line 1 of Demo.java to compile and run Demo to print "pizzapizza"?

```
A. import utils.*;
B. static import utils.*;
C. import utils.Repetition.*;
D. static import utils.Repetition.*;
E. import utils.Repetition.twice();
F. import static utils.Repetition.twice;
G. static import utils.Repetition.twice;
```

Correct Answer: F

QUESTION 13

```
Given:
```

```
package com.sun.scjp;
public class Geodetics {
        public static final double DIAMETER = 12756.32; // kilometers
}
```

Which two correctly access the DIAMETER member of the Geodetics class? (Choose two.)

```
A. import com.sun.scjp.Geodetics;
   public class TerraCarta {
       public double halfway() {
         return Geodetics.DIAMETER/2.0;
   }
B. import static com.sun.scjp.Geodetics;
   public class TerraCarta {
      public double halfway() {
         return DIAMETER/2.0;
   }
C. import static com.sun.scjp.Geodetics. *;
   public class TerraCarta {
        public double halfway() {
           return DIAMETER/2.0;
D. package com.sun.scjp;
   public class TerraCarta {
        public double halfway() {
           return DIAMETER/2.0;
   }
```

Correct Answer: AC

QUESTION 14

Which of the given expressions is true, for the given code?

```
String s1 = new String("abc");
String s2 = new String("abc");
A. s1 == s2
```

- B. s1.equals(s2)
- C. Both A and B
- D. Any answer is valid

Correct Answer: B

QUESTION 15

Which of the given options is the output produced by the code given below?

```
String s1 = new String("hello");
String s2 = "hello";
String s3 = "hello";
System.out.println(s1==s3);
System.out.println(s2==s3);
System.out.println(s1.equals(s2));
```

A. true true false

- B. false true true
- C. false false true
- D. false true false
- E. true false false
- F. false false false
- G. true true true

Correct Answer: B

QUESTION 16

What is displayed when the following code is compiled and executed?

```
String s1 = new String("Test");
String s2 = new String("Test");
if (s1==s2)
System.out.println("Same");
if (s1.equals(s2))
System.out.println("Equals");
```

- A. Same
- B. Equals
- C. The code compiles, but nothing is displayed upon execution
- D. The code fails to compile

Correct Answer: B

QUESTION 17

Given the following code?

```
public class ImmutableStrings
{
   public static void main(String[] args)
   {
      String one = "someString";
      String two = new String("someString");
      one = two = null;
   }
}
```

When the last line of main method is reached, how many objects are eligible for GC?

- A. 0 objects
- B. 1 object
- C. 2 objects
- D. Compilation fails.
- E. It is not possible to know.
- F. An exception is thrown at runtime.

Correct Answer: B

QUESTION 18

Given this method in a class:

```
public String toString() {
    StringBuffer buffer = new StringBuffer();
    buffer.append('<');
    buffer.append(this.name);
    buffer.append('>');
    return buffer.toString();
```

}

Which is true?

- A. This code is NOT thread-safe
- B. The programmer can replace StringBuffer with StringBuilder with no other changes
- C. This code will perform well and converting the code to use StringBuilder will not enhance the performance
- D. This code will perform poorly. For better performance, the code should be rewritten: return "<"+ this. name + ">";

Correct Answer: B

QUESTION 19

Given:

```
    public class MyLogger {
    private StringBuilder logger = new StringBuilder();
    public void log(String message, String user) {
    logger.append(message);
    logger.append(user);
    }
```

The programmer must guarantee that a single MyLogger object works properly for a multi-threaded system. How must this code be changed to be thread-safe?

- A. synchronize the log method
- B. replace StringBuilder with StringBuffer
- C. No change is necessary, the current MyLogger code is already thread-safe.
- D. replace StringBuilder with just a String object and use the string concatenation (+=) within the log method

Correct Answer: A

QUESTION 20

What will happen when you attempt to compile and run the following code snippet?

```
String str = "Java";
StringBuffer buffer = new StringBuffer(str);
if(str.equals(buffer))
{
    System.out.println("Both are equal");
}
else
{
    System.out.println("Both are not equal");
}
```

- A. It will print Both are not equal
- B. It will print Both are equal
- C. Compile time error as you can not use equals for objects of different classes
- D. Runtime error as you can not use equals for objects of different classes
- E. None of these

Correct Answer: A

QUESTION 21

Given:

```
1. public class KungFu {
2.    public static void main(String[] args) {
```

```
Integer x = 400;
3.
4.
           Integer y = x;
5.
          x++;
6.
          StringBuilder sb1 = new StringBuilder("123");
7.
          StringBuilder sb2 = sb1;
8.
          sb1.append("5");
9.
          System.out.println((x == y) + " " + (sb1 == sb2));
10.
      }
11. }
```

What is the result?

- A. true true
- B. false true
- C. true false
- D. false false
- E. Compilation fails.
- F. An exception is thrown at runtime.

Correct Answer: B

QUESTION 22

Which two scenarios are NOT safe to replace a StringBuffer object with a StringBuilder object? (Choose two.)

- A. When using versions of Java technology earlier than 5.0
- B. When sharing a StringBuffer among multiple threads
- C. When using the java.io class StringBufferInputStream
- D. When you plan to reuse the StringBuffer to build more than one string

Correct Answer: AB

QUESTION 23

Given:

```
public class TestString {
    public static void main(String[] args) {
        String str = "420";
        str += 42;
        System.out.print(str);
    }
}
```

What is the output?

- A. 42
- B. 420
- C. 462
- D. 42042
- E. Compilation fails
- F. An exception is thrown at runtime

Correct Answer: D

QUESTION 24

How many String objects are created when the following method is invoked?

```
11. public String makingStrings() {12. String s="Fred";
```

```
s=s+"47";
13.
14.
      s=s.substring(2,5);
15.
      s=s.toUpperCase();
       return s.toString();
16
17.}
A. 1
B. 2
C. 3
D. 4
E. 5
F. 6
Correct Answer: C
QUESTION 25
Given:
01. public class TestString3 {
       public static void main(String[] args) {
03.
           // insert code here
04.
           System.out.println(s);
05.
06. }
Which two code fragments, inserted independently at line 3, generate the output 4247? (Choose two.)
A. String s = "123456789";
  s = (s-"123").replace(1,3,"24") - "89";
B. StringBuffer s = new StringBuffer("123456789");
  s.delete(0,3).replace(1,3,"24").delete(4,6);
C. StringBuffer s = new StringBuffer("123456789");
  s.substring(3,6).delete(1,3).insert(1, "24");
D. StringBuilder s = new StringBuilder("123456789");
  s.substring(3,6).delete(1,2).insert(1, "24");
E. StringBuilder s = new StringBuilder("123456789");
  s.delete(0,3).delete(1,3).delete(2,5).insert(1, "24");
Correct Answer: BE
QUESTION 26
Given:
22. StringBuilder sb1 = new StringBuilder("123");
23. String s1 = "123";
24. // insert code here
25. System.out.println(sb1 + " " + s1);
Which code fragment, inserted at line 24, outputs "123abc 123abc"?
A. sb1.append("abc"); s1.append("abc");
B. sb1.append("abc"); s1.concat("abc");
C. sb1.concat("abc"); s1.append("abc");
D. sb1.concat("abc"); s1.concat("abc");
E. sb1.append("abc"); s1 = s1.concat("abc");
F. sb1.concat("abc"); s1 = s1.concat("abc");
G. sb1.append("abc"); s1 = s1 + s1.concat("abc");
H. sb1.concat("abc"); s1 = s1 + s1.concat("abc");
```

```
QUESTION 27
Given:
import static java.lang.System.*;
   static public void main(String... _A_V_) {
   String $ = "";
      for(int x=0; ++x < __A_V_.length; )
    $ += _A_V_[x];
out.println($);</pre>
}
And the command line:
java _ - A .
What is the result?
A. -A
B. A.
C. -A.
D. _A.
E. _-A.
F. Compilation fails
G. An exception is thrown at runtime
Correct Answer: B
QUESTION 28
Given:
class Fork {
   public static void main(String[] args) {
      if (args.length == 1 | args[1].equals("test")) {
           System.out.println("test case");
            System.out.println("porduction " + args[0]);
      }
   }
}
And the command-line invocation:
java Fork live2
What is the result?
A. test case
B. production live2
C. test case live2
```

Correct Answer: E

D. Compilation fails

E. An exception is thrown at runtime

```
Correct Answer: E
```

QUESTION 29

Given:

```
public class Yippee {
    public static void main(String [] args) {
        for(int x = 1; x < args.length; x++) {
            System.out.print(args[x] + " ");
        }
    }
}</pre>
```

and two separate command line invocations:

```
java Yippee
java Yippee 1 2 3 4
```

What is the result?

- A. No output is produced. 1 2 3
- B. No output is produced. 2 3 4
- C. No output is produced. 1 2 3 4
- D. An exception is thrown at runtime.
- E. An exception is thrown at runtime. 2 3 4
- F. An exception is thrown at runtime. 1 2 3 4

Correct Answer: B

QUESTION 30

Given:

and the command line: java -Dprop.custom=gobstopper Commander

Which two, placed on line 13, will produce the output gobstopper? (Choose two.)

```
A. System.load("prop.custom");
B. System.getenv("prop.custom");
C. System.property("prop.custom");
D. System.getProperty("prop.custom");
E. System.getProperties().getProperty("prop.custom");
```

Correct Answer: DE

QUESTION 31

Given:

```
import java.util.*;
```

```
public class Values {
   public static void main(String[] args) {
        Properties p = System.getProperties();
        p.setProperty("myProp", "myValue");
        System.out.print(p.getProperty("cmdProp") + " ");
        System.out.print(p.getProperty("myProp") + " ");
        System.out.print(p.getProperty("noProp") + " ");
        p.setProperty("cmdProp", "newValue");
        System.out.print(p.getProperty("cmdProp"));
    }
}
```

And given the command line invocation:

java -DcmdProp=cmdValue Values

- A. null myValue null null
- B. cmdValue null null cmdValue
- C. cmdValue null null newValue
- D. cmdValue myValue null cmdValue
- E. cmdValue myValue null newValue
- F. An exception is thrown at runtime

Correct Answer: E

QUESTION 32

Given:

If class Donkey is invoked twice, the first time without assertions enabled, and the second time with assertions enabled, what are the results?

- A. no output
- B. no output assert is on
- C. assert is on
- D. no output

An AssertionError is thrown.

E. assert is on

An AssertionError is thrown.

Correct Answer: C

QUESTION 33

Given:

```
public class Donkey {
   public static void main(String[] args) {
      boolean assertsOn = false;
      assert (assertsOn) : assertsOn = true;
      if(assertsOn) {
```

```
System.out.println("assert is on");
}
}
```

If class Donkey is invoked twice, the first time without assertions enabled, and the second time with assertions enabled, what are the results?

- A. no output
- B. no output assert is on
- C. assert is on
- D. no output

An AssertionError is thrown.

E. assert is on An AssertionError is thrown.

Correct Answer: D

QUESTION 34

Given:

Which command-line invocations will compile?

```
A. javac Mule.javaB. javac -source 1.3 Mule.javaC. javac -source 1.4 Mule.javaD. javac -source 1.5 Mule.java
```

Correct Answer: B

QUESTION 35

Given:

Which statement is true?

- A. All of the assert statements are used appropriately.
- B. Only the assert statement on line 12 is used appropriately.
- C. Only the assert statement on line 15 is used appropriately.
- D. Only the assert statement on line 18 is used appropriately.
- E. Only the assert statements on lines 12 and 15 are used appropriately.
- F. Only the assert statements on lines 12 and 18 are used appropriately.

G. Only the assert statements on lines 15 and 18 are used appropriately.

Correct Answer: G

QUESTION 36

Given a method that must ensure that its parameter is not null:

```
11. public void someMethod(Object value) {
12. // check for null value
...
20. System.out.println(value.getClass());
21. }
```

What, inserted at line 12, is the appropriate way to handle a null value?

```
A. assert value == null;
B. assert value != null, "value is null";
C. if (value == null) { throw new AssertionException("value is null"); }
D. if (value == null) { throw new IllegalArgumentException("value is null"); }
```

Correct Answer: D

QUESTION 37

Given:

```
    System.out.format("Pi is approximately %d.", Math.PI);
```

What is the result?

- A. Compilation fails
- B. Pi is approximately 3.
- C. Pi is approximately 3.141593.
- D. An exception is thrown at runtime.

Correct Answer: D

QUESTION 38

Given the following code:

```
package console;
public class Ques02 {
    public static void main(String[] args) {
        int anInt = 100;
        double aDouble = 100.00;
        System.out.format("%2d - %1f", anInt, aDouble);
    }
}
```

What is the output?

- A. The program will output '100.000000 100'.
- B. The program will output '100 100.000000'.
- C. The program will throw a IllegalFormatConversionException at runtime.
- D. The program will output '100 100'.

Correct Answer: B

QUESTION 39

Given:

Which code fragment, inserted at line 4, produces the output | 12.345|?

```
A. System.out.printf("|%7d| \n", d);
B. System.out.printf("|%7f| \n", d);
C. System.out.printf("|%3.7d| \n", d);
D. System.out.printf("|%3.7f| \n", d);
E. System.out.printf("|%7.3d| \n", d);
F. System.out.printf("|%7.3f| \n", d);
```

Correct Answer: F

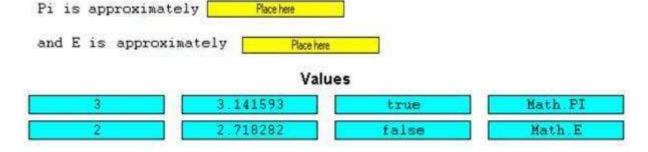
QUESTION 40

Given:

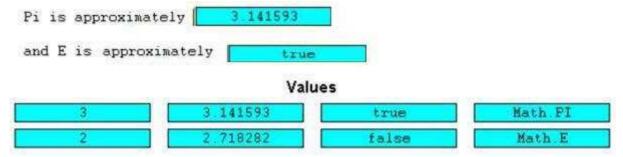
System.out.printf("Pi is approximately %f and E is approximately %b", Math.PI, Math.E);

Place the values where they would appear in the output.

Select and Place:



Correct Answer:



QUESTION 41

Given that c is a reference to a valid java.io. Console object, and:

```
11. String pw = c.readPassword("%s", "pw: ");
12. System.out.println("got " + pw);
13. String name = c.readLine("%s", "name: ");
14. System.out.println(" got ", name);
```

If the user types fido when prompted for a password, and then responds bob when prompted for a name, what is the result?

- A. pw: got fido name: bob got bob
- B. pw: fido got fido name: bob got bob
- C. pw: got fido name: bob got bob
- D. pw: fido got fido name: bob got bob
- E. Compilation fails.
- F. An exception is thrown at runtime.

Correct Answer: E

QUESTION 42

Given:

```
01. import java.io.*;
02.
03. public class Talk {
04. public static void main(String[] args) {
05.
          Console c = new Console();
06.
           String pw;
07.
          System.out.print("password: ");
          pw = c.readLine();
08.
          System.out.println("got " + pw);
09.
10.
       }
11. }
```

If the user types the password aiko when prompted, what is the result?

- A. password:
 - got
- B. password:
 - got aiko
- C. password: aiko got aiko
- D. An exception is thrown at runtime.
- E. Compilation fails due to an error on line 5.

Correct Answer: E

QUESTION 43

Given that c is a reference to a valid java.io.Console object, which two code fragments read a line of text from the console? (Choose two.)

```
A. String s = c.readLine();
B. char[] c = c.readLine();
C. String s = c.readConsole();
D. char[] c = c.readConsole();
E. String s = c.readLine("%s", "name ");
F. char[] c = c.readLine("%s", "name ");
```

Correct Answer: AE