

➤ **Vendor: Oracle**

➤ **Exam Code: 1Z0-808**

➤ **Exam Name: Java SE 8 Programmer I**

➤ **Question 61 -- Question 80**

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**QUESTION 61**

Which statement best describes encapsulation?

- A. Encapsulation ensures that classes can be designed so that only certain fields and methods of an object are accessible from other objects.
- B. Encapsulation ensures that classes can be designed so that their methods are inheritable.
- C. Encapsulation ensures that classes can be designed with some fields and methods declared as abstract.
- D. Encapsulation ensures that classes can be designed so that if a method has an argument MyType x, any subclass of MyType can be passed to that method.

**Answer: A**

**Explanation:**

[http://www.tutorialspoint.com/java/java\\_encapsulation.htm](http://www.tutorialspoint.com/java/java_encapsulation.htm)

**QUESTION 62**

Given the code fragment from three files:

SalesMan.java:

```
package sales;  
public class SalesMan { }
```

Product.java:

```
package sales.products;  
public class Product { }
```

Market.java:

```
1. package market;  
2. // insert code here  
3. public class USMarket {  
4.     SalesMan sm;  
5.     Product p;  
6. }
```

Which code fragment, when inserted at line 2, enables the code to compile?

- ☐ A) `import sales.*;`
- ☐ B) `import java.sales.products.*;`
- ☐ C) `import sales;  
import sales.products;`
- ☐ D) `import sales.*;  
import products.*;`
- ☐ E) `import sales.*;  
import sales.products.*;`

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer: E**

**Explanation:**

<https://docs.oracle.com/javase/tutorial/java/package/usepkgs.html>

### QUESTION 63

Given the following class:

```
public class CheckingAccount {  
    public int amount;  
    public CheckingAccount(int amount) {  
        this.amount = amount;  
    }  
    public int getAmount() {  
        return amount;  
    }  
    public void changeAmount(int x) {  
        amount += x;  
    }  
}
```

And given the following main method, located in another class:

```
public static void main(String[] args) {  
    CheckingAccount acct = new CheckingAccount((int) (Math.random()*1000));  
    //line n1  
    System.out.println(acct.getAmount());  
}
```

Which three lines, when inserted independently at line n1, cause the program to print a 0 balance?

- A. this.amount = 0;
- B. amount = 0;
- C. acct(0);
- D. acct.amount = 0;
- E. acct.getAmount() = 0;
- F. acct.changeAmount(0);
- G. acct.changeAmount(-acct.amount);
- H. acct.changeAmount(-acct.getAmount());

**Answer:** DGH

**Explanation:**

A and B don't compile because there isn't a variable amount in method main.

C is wrong because we can't call the constructor acct directly.

E is wrong because we can't make a method on acct equal to 0.

F is wrong because does not change variable amount of class CheckingAccount.

#### **QUESTION 64**

Given the code fragment:

```
String shirts[][] = new String[2][2];  
shirts[0][0] = "red";  
shirts[0][1] = "blue";  
shirts[1][0] = "small";  
shirts[1][1] = "medium";
```

Which code fragment prints red: blue: small: medium?

- ☐ A) 

```
for (int index = 1; index < 2; index++) {  
    for (int idx = 1; idx < 2; idx++) {  
        System.out.print(shirts[index][idx] + ":");  
    }  
}
```
- ☐ B) 

```
for (int index = 0; index < 2; ++index) {  
    for (int idx = 0; idx < index; ++idx) {  
        System.out.print(shirts[index][idx] + ":");  
    }  
}
```
- ☐ C) 

```
for (String c : colors) {  
    for (String s : sizes) {  
        System.out.println(s + ":");  
    }  
}
```
- ☐ D) 

```
for (int index = 0; index < 2;) {  
    for (int idx = 0; idx < 2;) {  
        System.out.print(shirts[index][idx] + ":");  
        idx++;  
    }  
    index++;  
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer: B**

**QUESTION 65**

Given the code fragment:

```
public class Test{

    void readCard(int cardNo) throws Exception {
        System.out.println("Reading Card");
    }

    void checkCard(int cardNo) throws RuntimeException { // line n1
        System.out.println("Checking Card");
    }

    public static void main(String[] args) {
        Test ex = new Test();
        int cardNo = 12344;
        ex.checkCard(cardNo);           //line n2
        ex.readCard(cardNo);           //line n3
    }
}
```

What is the result?

- A. Reading Card  
Checking Card
- B. Compilation fails only at line n1.
- C. Compilation fails only at line n2.
- D. Compilation fails only at line n3.
- E. Compilation fails at both line n2 and line n3.

**Answer: D**

**Explanation:**

Exception is a checked exception so we are required to check it with try/catch or be declared in method main.

#### QUESTION 66

Given the code fragment:

```
public static void main(String[] args) {
    StringBuilder sb = new StringBuilder(5);
    String s = "";

    if (sb.equals(s)) {
        System.out.println("Match 1");
    } else if (sb.toString().equals(s.toString())) {
        System.out.println("Match 2");
    } else {
        System.out.println("No Match");
    }
}
```

What is the result?

- A. Match 1
- B. Match 2
- C. No Match

D. A NullPointerException is thrown at runtime.

**Answer: B**

**QUESTION 67**

Given:

```
package p1;
public class Acc {
    int p;
    private int q;
    protected int r;
    public int s;
}
```

Test.java:

```
package p2;
import p1.Acc;
public class Test extends Acc {
    public static void main(String[] args) {
        Acc obj = new Test();
    }
}
```

Which statement is true?

- A. Both p and s are accessible by obj.
- B. Only s is accessible by obj.
- C. Both r and s are accessible by obj.
- D. p, r, and s are accessible by obj.

**Answer: B**

**Explanation:**

Only s is accessible because it is the only public member of class Acc.

**QUESTION 68**

Given:

Base.java:

```
class Base {  
    public void test(){  
        System.out.println("Base ");  
    }  
}
```

DerivedA.java:

```
class DerivedA extends Base {  
    public void test(){  
        System.out.println("DerivedA ");  
    }  
}
```

DerivedB.java:

```
class DerivedB extends DerivedA {  
    public void test(){  
        System.out.println("DerivedB ");  
    }  
    public static void main(String[] args) {  
        Base b1 = new DerivedB();  
        Base b2 = new DerivedA();  
        Base b3 = new DerivedB();  
        b1 = (Base) b3;  
        Base b4 = (DerivedA) b3;  
        b1.test();  
        b4.test();  
    }  
}
```

What is the result?

- A. Base  
DerivedA
- B. Base  
DerivedB
- C. DerivedB  
DerivedB
- D. DerivedB  
DerivedA
- E. A classcast Exception is thrown at runtime.

**Answer: C**

**QUESTION 69**

Given the code fragment:

```
public static void main(String[] args) {  
    ArrayList myList = new ArrayList();  
    String[] myArray;  
    try {  
        while (true) {  
            myList.add("My String");  
        }  
    }  
    catch (RuntimeException re) {  
        System.out.println("Caught a RuntimeException");  
    }  
    catch (Exception e) {  
        System.out.println("Caught an Exception");  
    }  
    System.out.println("Ready to use");  
}
```

What is the result?

- A. Execution terminates in the first catch statement, and caught a RuntimeException is printed to the console.
- B. Execution terminates in the second catch statement, and caught an Exception is printed to the console.
- C. A runtime error is thrown in the thread "main".
- D. Execution completes normally, and Ready to use is printed to the console.
- E. The code fails to compile because a throws keyword is required.

**Answer: C**

**Explanation:**

while loop is an infinite loop so the program ends with an OutOfMemoryError.

This error can't be caught with Exception nor RuntimeException.

<http://stackoverflow.com/questions/1692230/is-it-possible-to-catch-out-of-memory-exception-in-java>

#### QUESTION 70

Given:

```
System.out.println("5 + 2 = " + 3 + 4);  
System.out.println("5 + 2 = " + (3 + 4));
```

What is the result?

- ☐ A) 5 + 2 = 34  
5 + 2 = 34
- ☐ B) 5 + 2 + 3 + 4  
5 + 2 = 7
- ☐ C) 7 = 7  
7 + 7
- ☐ D) 5 + 2 = 34  
5 + 2 = 7



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

**Explanation:**

If neither operand of + is a reference to a String object, the operator is the arithmetic addition operator, not the string concatenation operator. Note that Java does not allow a program to define overloaded operators. However, the language defines the + operator to have a meaning that is fundamentally different from arithmetic addition if at least one of its operands is a String object.

The way in which Java decides if + means arithmetic addition or string concatenation means that the use of parentheses can alter the meaning of the + operator.

See "String Concatenation Operator +" at

[http://oponet.stsci.edu/web/documentation/Java%20Reference%20Library%201.02/langref/ch04\\_06.htm](http://oponet.stsci.edu/web/documentation/Java%20Reference%20Library%201.02/langref/ch04_06.htm)

#### QUESTION 71

Given:

```
public static void main(String[] args) {  
    String ta = "A ";  
    ta = ta.concat("B ");  
    String tb = "C ";  
    ta = ta.concat(tb);  
    ta.replace('C', 'D');  
    ta = ta.concat(tb);  
    System.out.println(ta);  
}
```

What is the result?

- A. A B C D
- B. A C D
- C. A B C C
- D. A B D
- E. A B D C

**Answer: C**

**Explanation:**

The line "ta.replace('C', 'D');" returns a string that is never assigned to ta.

#### QUESTION 72

Given the code fragment:

```
3. public static void main(String[] args) {  
4.     int x = 5;  
5.     while (isAvailable(x)) {  
6.         System.out.print(x);  
7.  
8.     }  
9. }  
10.  
11. public static boolean isAvailable(int x) {  
12.     return x-- > 0 ? true : false;  
13. }
```

Which modification enables the code to print 54321?

- A. Replace line 6 with System.out.print(--x);
- B. At line 1, insert x--;
- C. Replace line 6 with --x; and, at line 7, insert system.out.print(x);
- D. Replace line 12 With return (x > 0) ? false: true;

**Answer: A**

**QUESTION 73**

Given the code fragment:

```
4. public static void main(String[] args) {  
5.     boolean opt = true;  
6.     switch (opt) {  
7.         case true:  
8.             System.out.print("True");  
9.             break;  
10.        default:  
11.            System.out.print("****");  
12.        }  
13.     System.out.println("Done");  
14. }
```

Which modification enables the code fragment to print TrueDone?

- A. Replace line 5 With String result = "true";  
Replace line 7 with case "true":
- B. Replace line 5 with boolean opt = !;  
Replace line 7 with case 1=
- C. At line 9, remove the break statement.
- D. Remove the default section.

**Answer: A**

**Explanation:**

Switch statements with String cases were implemented in Java SE 7.

**QUESTION 74**

Given the following main method:

```
public static void main(String[] args) {  
    int num = 5;  
    do {  
        System.out.print(num-- + " ");  
    } while(num == 0);  
}
```

What is the result?

- A. 5 4 3 2 1 0
- B. 5 4 3 2 1
- C. 4 2 1
- D. 5
- E. Nothing is printed

**Answer: D**

**Explanation:**

The loop body executes only once because on the while condition num = 4. When the execution reaches System.out.print, num = 5.

**QUESTION 75**

Given the code fragment:

```
int x = 100;  
int a = x++;  
int b = ++x;  
int c = x++;  
int d = (a < b) ? (a < c) ? a : (b < c) ? b : c;  
System.out.println(d);
```

What is the result?

- A. 100
- B. 101
- C. 102
- D. 103
- E. Compilation fails

**Answer: E**

**Explanation:**

Compilation fails with error ": expected" because we have three ternary operators but only two colons.

**QUESTION 76**

Given:

```
public class Test {  
  
    public static void main(String[] args) {  
  
        String[][] chs = new String[2][];  
        chs[0] = new String[2];  
        chs[1] = new String[5];  
        int i = 97;  
  
        for (int a = 0; a < chs.length; a++) {  
            for (int b = 0; b < chs[a].length; b++) {  
                chs[a][b] = "" + i;  
                i++;  
            }  
        }  
  
        for (String[] ca : chs) {  
            for (String c : ca) {  
                System.out.print(c + " ");  
            }  
            System.out.println();  
        }  
    }  
}
```

What is the result?

- A. 97 98  
99 100 null null null
- B. 91 98  
99 100 101 102 103
- C. Compilation fails.
- D. A NullPointerException is thrown at runtime.
- E. An ArrayIndexOutOfBoundsException is thrown at runtime.

**Answer: A**

**Explanation:**

When we exit first loop we have

chs[0][0] = 97

chs[0][1] = 98

chs[1][0] = 99

chs[1][1] = 100

chs[1][2] = null;

chs[1][3] = null;

chs[1][4] = null;

The second loop prints these values.

**QUESTION 77**

Given the code fragment:

```
public class Employee {  
    String name;  
    boolean contract;  
    double salary;  
    Employee() {  
        // line n1  
    }  
    public String toString() {  
        return name + ":" + contract + ":" + salary;  
    }  
    public static void main(String[] args) {  
        Employee e = new Employee();  
        // line n2  
        System.out.print(e);  
    }  
}
```

Which two modifications, when made independently, enable the code to print joe:true: 100.0?

- ☐ A) Replace line n2 with:  
    e.name = "Joe";  
    e.contract = true;  
    e.salary = 100;
- ☐ B) Replace line n2 with:  
    this.name = "Joe";  
    this.contract = true;  
    this.salary = 100;
- ☐ C) Replace line n1 with:  
    this.name = new String("Joe");  
    this.contract = new Boolean(true);  
    this.salary = new Double(100);
- ☐ D) Replace line n1 with:  
    name = "Joe";  
    contract = TRUE;  
    salary = 100.0f;
- ☐ E) Replace line n1 with:  
    this("Joe", true, 100);

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

**Answer: AC**

**QUESTION 78**

View the exhibit:

```
public class Student {  
    public String name = "";  
    public int age = 0;  
    public String major = "Undeclared";  
    public boolean fulltime = true;  
    public void display() {  
        System.out.println("Name: " + name + " Major: " + major);  
    }  
    public boolean isFullTime() {  
        return fulltime;  
    }  
}
```

Which line of code initializes a student instance?

- A. Student student1;
- B. Student student1 = Student.new();
- C. Student student1 = new Student();
- D. Student student1 = Student();

**Answer: C**

**QUESTION 79**

What should keyword1 and keyword2 be respectively, in order to produce output 2345?

```
int [] array = {1,2,3,4,5};  
for (int i: array) {  
    if ( i < 2) {  
        keyword1 ;  
    }  
    System.out.println(i);  
    if ( i == 3) {  
        keyword2 ;  
    }  
}}
```

- A. continue, break
- B. break, break
- C. break, continue
- D. continue, continue

**Answer: D**

**QUESTION 80**

What is the result?

```
int i, j=0;  
i = (3* 2 +4 +5 ) ;  
j = ( 3 * ((2+4) + 5));  
System.out.println("i:"+ i + "\nj":+j);
```

- A. i: 16  
j: 33
- B. i: 15  
j: 33
- C. i: 33  
j: 23
- D. i: 15  
j: 23

- A. Option A  
B. Option B  
C. Option A  
D. Option D

**Answer: B**

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