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Question 1

Given:

```
11. public interface Status {  
12. /* insert code here */ int MY_VALUE = 10;  
13.  
}
```

Which three are valid on line 12?

(Choose three.)

- A. final
- B. static
- C. native
- D. public
- E. private
- F. abstract
- G. protected

Question 2

Given:

```
10. public class Bar {  
11. static void foo(int...x) {  
12. // insert code here  
13. }  
14. }
```

Which two code fragments, inserted independently at line 12, will allow the class to compile?

(Choose two.)

- A. `foreach(x) System.out.println(z);`
- B. `for(int z : x) System.out.println(z);`
- C. `while(x.hasNext()) System.out.println(x.next());`
- D. `for(int i=0; i< x.length; i++) System.out.println(x[i]);`

Question 3

Given:

```
11. public class Test {  
12. public static void main(String [] args) {  
13. int x =5;  
14. boolean b1 = true;  
15. boolean b2 = false;  
16.  
17. if((x==4) && !b2)  
18. System.out.print("1 ");  
19. System.out.print("2 ");  
20. if ((b2 = true) && b1)  
21. System.out.print("3 ");
```

```
22. }  
23. }
```

What is the result?

- A. 2
- B. 3
- C. 1 2
- D. 2 3
- E. 1 2 3
- F. Compilation fails.
- G. An exception is thrown at runtime.

Question 4

Given:

```
31. // some code here  
32. try {  
33. // some code here  
34. } catch (SomeException se) {  
35. // some code here  
36. } finally {  
37. // some code here  
38. }
```

Under which three circumstances will the code on line 37 be executed?

(Choose three.)

- A. The instance gets garbage collected.
- B. The code on line 33 throws an exception.
- C. The code on line 35 throws an exception.
- D. The code on line 31 throws an exception.
- E. The code on line 33 executes successfully.

Question 5

Given:

```
10. interface Foo {}  
11. class Alpha implements Foo { }  
12. class Beta extends Alpha {}  
13. class Delta extends Beta {  
14. public static void main( String[] args) {  
15. Beta x = new Beta();  
16. // insert code here  
17. }  
18. }
```

Which code, inserted at line 16, will cause a java.lang.ClassCastException?

- A. `Alpha a = x;`
- B. `Foo f= (Delta)x;`
- C. `Foo f= (Alpha)x;`

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D. Beta b = (Beta)(Alpha)x;

Question 6

Given:

```
20. public class CreditCard {
21.
22. private String cardID;
23. private Integer limit;
24. public String ownerName;
25.
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. }
```

Which is true?

- A. The class is fully encapsulated.
- B. The code demonstrates polymorphism.
- C. The ownerName variable breaks encapsulation.
- D. The cardID and limit variables break polymorphism.
- E. The setCardInformation method breaks encapsulation.

Question 7

Assume that country is set for each class.

Given:

```
10. public class Money {
11. private String country, name;
12. public getCountry() { return country; }
13.} and:
24. class Yen extends Money {
25. public String getCountry() { return
super.country; }
26. }
27.
28. class Euro extends Money {
```

```
29. public String getCountry(String timeZone) {
30. return super.getCountry();
31. }
32. }
```

Which two are correct? (Choose two.)

- A. Yen returns correct values.
- B. Euro returns correct values.
- C. An exception is thrown at runtime.
- D. Yen and Euro both return correct values.
- E. Compilation fails because of an error at line 25.
- F. Compilation fails because of an error at line 30.

Question 8

Which Man class properly represents the relationship "Man has a best friend who is a Dog"?

- A. class Man extends Dog { }
- B. class Man implements Dog { }
- C. class Man { private BestFriend dog; }
- D. class Man { private Dog bestFriend; }
- E. class Man { private Dog<bestFriend> }
- F. class Man { private BestFriend<dog> }

Question 9

Given:

```
13. public class Pass {
14. public static void main(String [1 args] {
15. int x 5;
16. Pass p = new Pass();
17. p.doStuff(x);
18. System.out.print(" main x = "+ x);
19. }
20.
21. void doStuff(int x) {
22. System.out.print(" doStuff x = "+ x++);
23. }
24. }
```

What is the result?

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- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuffx = 6 main x = 6
- D. doStuffx = 5 main x = 5
- E. doStuffx = 5 main x = 6
- F. doStuffx = 6 main x = 5

Question 10

Given:

```
10. package com.sun.scjp;  
11. public class Geodetics {  
12. public static final double DIAMETER =  
12756.32; // kilometers  
13. }
```

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; } }

Question 11

Given:

```
10. interface Foo { int bar(); }  
11. public class Sprite {  
12. public int fubar( Foo foo) { return foo.bar(); }  
13. public void testFoo() {  
14. fubar(  
15. // insert code here  
16.});  
17. }  
18. }
```

Which code, inserted at line 15, allows the class Sprite to compile?

- A. Foo { public int bar() { return 1; } }
- B. new Foo { public int bar() { return 1; } }
- C. new Foo() { public int bar(){return 1; } }
- D. new class Foo { public int bar() { return 1; } }

Question 12

Given:

```
1. public interface A {  
2. String DEFAULT_GREETING = "Hello World";  
3. public void method1();  
4. }
```

A programmer wants to create an interface called B that has A as its parent. Which interface declaration is correct?

- A. public interface B extends A { }
- B. public interface B implements A { }
- C. public interface B instanceof A { }
- D. public interface B inheritsFrom A { }

Question 13

Given:

```
1. class TestA {  
2. public void start() {  
System.out.println("TestA"); }  
3. }  
4. public class TestB extends TestA {  
5. public void start() {  
System.out.println("TestB"); }  
6. public static void main(String[] args) {  
7. ((TestA)new TestB()).start();  
8. }  
9. }
```

What is the result?

- A. TestA
- B. TestB
- C. Compilation fails.
- D. An exception is thrown at runtime.

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Question 14

Given:

```
1. interface TestA { String toString(); }
2. public class Test {
3.     public static void main(String[] args) {
4.         System.out.println(new TestA() {
5.             public String toString() { return "test"; }
6.         });
7.     }
8. }
```

What is the result?

- A. test
- B. null
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 1.
- E. Compilation fails because of an error in line 4.
- F. Compilation fails because of an error in line 5.

Question 15

Given:

```
11. public abstract class Shape {
12.     int x;
13.     int y;
14.     public abstract void draw();
15.     public void setAnchor(int x, int y) {
16.         this.x = x;
17.         this.y = y;
18.     }
19. }
```

and a class Circle that extends and fully implements the Shape class.

Which is correct?

- A. Shape s = new Shape(); s.setAnchor(10,10); s.draw();
- B. Circle c = new Shape(); c.setAnchor(10,10); c.draw();
- C. Shape s = new Circle(); s.setAnchor(10,10); s.draw();

- D. Shape s = new Circle(); s->setAnchor(10,10); s->draw();
- E. Circle c = new Circle(); c.Shape.setAnchor(10,10); c.Shape.draw();

Question 16

Given:

```
10. abstract public class Employee {
11.     protected abstract double
    getSalesAmount();
12.     public double getCommision() {
13.         return getSalesAmount() * 0.15;
14.     }
15. }
16. class Sales extends Employee {
17.     // insert method here
18. }
```

Which two methods, inserted independently at line 17, correctly complete the Sales class? (Choose two.)

- A. double getSalesAmount() { return 1230.45; }
- B. public double getSalesAmount() { return 1230.45; }
- C. private double getSalesAmount() { return 1230.45; }
- D. protected double getSalesAmount() { return 1230.45; }

Question 17

Given:

```
10. interface Data { public void load(); }
11. abstract class Info { public abstract void load(); }
```

Which class correctly uses the Data interface and Info class?

- A. public class Employee extends Info implements Data { public void load() { /*do something*/ } }

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B. public class Employee implements Info
extends Data

```
{ public void load() {  
    /*do something*/  
}
```

C. public class Employee extends Info
implements Data

```
{ public void load() {  
    /*do something */  
    public void Info.load()  
    { /*do something*/  
}
```

D. public class Employee implements Info
extends Data

```
{ public void Data.load() { /*d something */  
    public void load() { /*do something */  
}
```

E. public class Employee implements Info
extends Data

```
{ public void load() { /*do something */  
    public void Info.load(){ /*do something*/ }}
```

F. public class Employee extends Info
implements Data

```
{ public void Data.load() { /*do something*/  
    public void Info.load() { /*do something*/ }}
```

Question 18

Given:

```
11. public abstract class Shape {  
12. private int x;  
13. private int y;  
14. public abstract void draw();  
15. public void setAnchor(int x, int y) {  
16. this.x = x;  
17. this.y = y;  
18. }  
19. }
```

Which two classes use the Shape class
correctly? (Choose two.)

A. public class Circle implements Shape { private
int radius; }

B. public abstract class Circle extends Shape {
private int radius; }

C. public class Circle extends Shape { private int
radius; public void draw(); }

D. public abstract class Circle implements Shape
{ private int radius; public void draw(); }

E. public class Circle extends Shape { private int
radius; public void draw() { /* code here */ }}

F. public abstract class Circle implements Shape
{ private int radius; public void draw() { / code
here */ }}

Question 19

Given:

```
11. public static void parse(String str) {  
12. try {  
13. float f= Float.parseFloat(str);  
14. } catch (NumberFormatException nfe) {  
15. f= 0;  
16. }  
finally {  
17. System.out.println(f);  
18. }  
19. }  
20. public static void main(String[] args) {  
21. parse("invalid");  
22. }
```

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.

Question 19

```
1. public class Test {  
2. int x= 12;  
3. public void method(int x) {  
4. x+=x;
```

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```
5. System.out.println(x);
6. }
7. }
Given:
34. Test t = new Test();
35. t.method(5);
```

What is the output from line 5 of the Test class?

- A. 5
- B. 10
- C. 12
- D. 17
- E. 24

Question 20

Given:

```
55. int []x= {1, 2,3,4, 5};
56.int y[] =x;
57. System.out.println(y[2]);
```

Which is true?

- A. Line 57 will print the value 2.
- B. Line 57 will print the value 3.
- C. Compilation will fail because of an error in line 55.
- D. Compilation will fail because of an error in line 56.

Question 21

Which two code fragments correctly create and initialize a static array of int elements? (Choose two.)

- A. static final int[] a = { 100,200 };
- B. static final int[] a;
static { a=new int[2]; a[0]=100; a[1]=200; }
- C. static final int[] a = new int[2] { 100,200 };
- D. static final int[] a;
static void init() { a = new int[3]; a[0]=100; a[1]=200; }

Question 22

Given:

```
11. public static void main(String[] args) {
12. Object obj =new int[] { 1,2,3 };
13. int[] someArray = (int[])obj;
14. for (int i: someArray) System.out.print(i + "
15. }
```

What is the result?

- A. 1 2 3
- B. Compilation fails because of an error in line 12.
- C. Compilation fails because of an error in line 13.
- D. Compilation fails because of an error in line 14.
- E. A ClassCastException is thrown at runtime.

Question 23

Given:

```
10. class Foo {
11. static void alpha() { /* more code here */ }
12. void beta() { /* more code here */ }
13. }
```

Which two are true? (Choose two.)

- A. Foo.beta() is a valid invocation of beta().
- B. Foo.alpha() is a valid invocation of alpha().
- C. Method beta() can directly call method alpha().
- D. Method alpha() can directly call method beta().

Question 24

A programmer needs to create a logging method that can accept an arbitrary number of arguments. For example, it may be called in these ways:

```
logIt("log message 1 ");
logIt("log message2","log message3");
logIt("log message4", "log message5", "log message6);
```

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Which declaration satisfies this requirement?

- A. public void logIt(String * msgs)
- B. public void logIt(String [] msgs)
- C. public void logIt(String... msgs)
- D. public void logIt(String msg1, String msg2, String msg3)

Question 25

- 1. public class A {
- 2.
- 3. private int counter = 0;
- 4.
- 5. public static int getInstanceCount() {
- 6. return counter; 7. }
- 8.
- 9. public A() {
- 10. counter++;
- 11. }
- 12.
- 13. }

Given this code from Class B:

- 25. A a1 = new A();
- 26. A a2 = new A();
- 27. A a3 = new A();
- 28. System.out.println(A.getInstanceCount());

What is the result?

- A. Compilation of class A fails.
- B. Line 28 prints the value 3 to System.out.
- C. Line 28 prints the value 1 to System.out.
- D. A runtime error occurs when line 25 executes.
- E. Compilation fails because of an error on line 28.

Question 26

Given:

- 10. class One {
- 11. public One foo() { return this; }
- 12. }
- 13. class Two extends One {
- 14. public One foo() { return this; }
- 15. }

- 16. class Three extends Two {
- 17. // insert method here
- 18. }

Which two methods, inserted individually, correctly complete the Three class? (Choose two.)

- A. public void foo() { }
- B. public int foo() { return 3; }
- C. public Two foo() { return this; }
- D. public One foo() { return this; }
- E. public Object foo() { return this; }

Question 27

Given:

- 10. class One {
- 11. void foo() { }
- 12. }
- 13. class Two extends One {
- 14. //insert method here
- 15. }

Which three methods, inserted individually at line 14, will correctly complete class Two? (Choose three.)

- A. int foo() { /* more code here */ }
- B. void foo() { /* more code here */ }
- C. public void foo() { /* more code here */ }
- D. private void foo() { /* more code here */ }
- E. protected void foo() { /* more code here */ }

Question 28

- 1. public interface A {
- 2. public void doSomething(String thing);
- 3. }

- 1. public class AImpl implements A {
- 2. public void doSomething(String msg) { }
- 3. }

- 1. public class B {
- 2. public A doit() { }

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```
3. // more code here
4. }
5.
6. public String execute() {
7. // more code here
8. }
9. }
```

```
1. public class C extends B {
2. public Almpl doit() {
3. // more code here
4. }
5.
6. public Object execute() {
7. // more code here
8. }
9. }
```

Which statement is true about the classes and interfaces in the exhibit?

- A. Compilation will succeed for all classes and interfaces.
- B. Compilation of class C will fail because of an error in line 2.
- C. Compilation of class C will fail because of an error in line 6.
- D. Compilation of class Almpl will fail because of an error in line 2.

Question 29

```
1. public class A {
2. public String doit(int x, int y) {
3. return "a";
4. }
5.
6. public String doit(int... vals) {
7. return "b";
8. }
9. }
```

Given:

```
25. A a=new A();
26. System.out.println(a.doit(4, 5));
```

What is the result?

- A. Line 26 prints "a" to System.out.
- B. Line 26 prints 'b' to System.out.
- C. An exception is thrown at line 26 at runtime.
- D. Compilation of class A will fail due to an error in line 6.

Question 30

Given:

```
1. public class A {
2. public void doit() {
3. }
4. public String doit() {
5. return "a";
6. }
7. public double doit(int x) {
8. return 1.0; 9. }
10. }
```

What is the result?

- A. An exception is thrown at runtime.
- B. Compilation fails because of an error in line 7.
- C. Compilation fails because of an error in line 4.
- D. Compilation succeeds and no runtime errors with class A occur.

Question 31

Given:

```
10. class Line {
11. public static class Point { }
12. }
13.
14. class Triangle {
15. // insert code here
16. }
```

Which code, inserted at line 15, creates an instance of the Point class defined in Line?

- A. Point p = new Point();
- B. Line.Point p = new Line.Point();
- C. The Point class cannot be instantiated at line 15.

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D. Line 1 = new Line() ; 1.Point p = new
1.Point();

D. 321
E. The code rims with no output.

Question 32

Given:

```
10. class Line {  
11. public class Point { public int x,y; }  
12. public Point getPoint() { return new Point();  
13. }  
14. class Triangle {  
15. public Triangle() {  
16. // insert code here  
17. }  
18. }
```

Which code, inserted at line 16, correctly
retrieves a local instance of a Point object?

- A. Point p = Line.getPoint();
- B. Line.Point p = Line.getPoint();
- C. Point p = (new Line()).getPoint();
- D. Line.Point p = (new Line()).getPoint();

Question 33

Given:

```
10. class One {  
11. public One() { System.out.print(1); }  
12. }  
13. class Two extends One {  
14. public Two() { System.out.print(2); }  
15. }  
16. class Three extends Two {  
17. public Three() { System.out.print(3); }  
18. }  
19. public class Numbers{  
20. public static void main( String[] argv) { new  
Three(); }  
21. }
```

What is the result when this code is executed?

- A. 1
- B. 3
- C. 123

Question 34

```
11. class Person {  
12. String name = "No name";  
13. public Person(String nm) { name = nm; }  
14. }  
15.  
16. class Employee extends Person {  
17. String empID = "0000";  
18. public Employee(String id) { empID = id; }  
19. }  
20.  
21. public class EmployeeTest {  
22. public static void main(String[] args) {  
23. Employee e = new Employee("4321");  
24. System.out.println(e.empID);  
25. }  
26. }
```

What is the result?

- A. 4321
- B. 0000
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 18.

Question 35

Given:

```
1. public class Plant {  
2. private String name;  
3. public Plant(String name) { this.name =  
name; }  
4. public String getName() { return name; }  
5. }  
  
1. public class Tree extends Plant {  
2. public void growFruit() { }  
3. public void dropLeaves() { }  
4. }
```

Which is true?

- A. The code will compile without changes.

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- B. The code will compile if public Tree() { Plant(); } is added to the Tree class.
- C. The code will compile if public Plant() { Tree(); } is added to the Plant class.
- D. The code will compile if public Plant() { this("fern"); } is added to the Plant class.
- E. The code will compile if public Plant() { Plant("fern"); } is added to the Plant class.

Question 36

```
11. public class Bootchy {
12. int bootch;
13. String snootch;
14.
15. public Bootchy() {
16. this("snootchy");
17. System.out.print("first ");
18. }
19.
20. public Bootchy(String snootch) {
21. this(420, "snootchy");
22. System.out.print("second ");
23. }
24.
25. public Bootchy(int bootch, String snootch) {
26. this.bootch = bootch;
27. this.snootch = snootch;
28. System.out.print("third ");
29. }
30.
31. public static void main(String[] args) {
32. Bootchy b = new Bootchy();
33. System.out.print(b.snootch + " " +
b.bootch);
34. }
35. }
```

What is the result?

- A. snootchy 420 third second first
- B. snootchy 420 first second third
- C. first second third snootchy 420
- D. third second first snootchy 420
- E. third first second snootchy 420
- F. first second first third snootchy 420