Ex1
Given:

TestApp.java

```
public class TestApp {
	public static void main(String[] args) {
		TestApp t = new TestApp();
		try {
			t.doPrint();
			t.doList();
		} catch (Exception e2) {
			System.out.println("Caught " + e2);
		}
	}
	public void doList() throws Exception {
		throw new Error("Error");
	}
	public void doPrint() throws Exception {
		throw new RuntimeException("Exception");
	}
}
```

What is the result?

A.
Caught java.lang.RuntimeException: Exception
Exception in thread "main" java.lang.Error: Error
at TestApp.doList(TestApp.java: 14)
at TestApp.main(TestApp.java: 6)

B.
Exception in thread "main" java.lang.Error: Error
at TestApp.doList(TestApp.java: 14)
at TestApp.main(TestApp.java: 6)

C.
Caught java.lang.RuntimeException: Exception
Caught java.lang.Error: Error

D.
Caught java.lang.RuntimeException: Exception

Ex2
Given:

```
class Dog {

	Dog() {
		try {
			throw new Exception();
		} catch (Exception e) { }
	}
}

class Test {

	public static void main(String[] args) {
		Dog d1 = new Dog();
		Dog d2 = new Dog();
		Dog d3 = d2;
		// do complex stuff
	}
}
```

How many objects have been created when the line // do complex stuff is reached?

A. Two
B. Three
C. Four
D. Six

Ex3
Given:

```
public class App {

	public static void main(String[] args) {
		Boolean[] bool = new Boolean[2];

		bool[0] = new Boolean(Boolean.parseBoolean("true"));
		bool[1] = new Boolean(null);

		System.out.println(bool[0] + " " + bool[1]);
```

```
    }
}
```

What is the result?

A.true false
B.true null
C.Compilation fails
D.A NullPointerException is thrown at runtime

Ex4

Given:

```
public class TestLoop {

    public static void main(String[] args) {
        int array[] = {0, 1, 2, 3, 4};
        int key = 3;
        for (int pos = 0; pos < array.length; ++pos) {
            if (array[pos] == key) {
                break;
            }
        }
        System.out.print("Found " + key + " at " + pos);
    }
}
```

What is the result?

A. Found 3 at 2
B. Found 3 at 3
C. Compilation fails
D. An exception is thrown at runtime

Ex5

Which of the following can fill in the blank in this code to make it compile? (Select 2 options.)

```
public void method()  _________  Exception{
    ___________  Exception();
}
```

A. On line 1, fill in throws
B. On line 1, fill in throws new
C. On line 2, fill in throw new
D. On line 2, fill in throws
E. On line 2, fill in throws new

Ex6

View the exhibit.

```
class MissingInfoException extends Exception {
}

class AgeOutofRangeException extends Exception {
}

class Candidate {

	String name;
	int age;

	Candidate(String name, int age) throws Exception {
		if (name == null) {
			throw new MissingInfoException();
		} else if (age <= 10 || age >= 150) {
			throw new AgeOutofRangeException();
		} else {
			this.name = name;
			this.age = age;
		}
	}

	public String toString() {
		return name + " age: " + age;
	}
}
```

Given the code fragment:

```
public class Test {
	public static void main(String[] args) {
		Candidate c = new Candidate("James", 20);
		Candidate c1 = new Candidate("Williams", 32);
		System.out.println(c);
		System.out.println(c1);
	}
}
```

Which change enables the code to print the following?

James age: 20

Williams age: 32

A.
Replacing line 5 with
public static void main (String [] args) throws MissingInfoException, AgeOutofRangeException {

B.
Replacing line 5 with
public static void main (String [] args) throws.Exception {

C.
Enclosing line 6 and line 7 within a try block and adding:
catch (MissingInfoException e1) { //code goes here
}
catch (AgeOutofRangeException e2) {//code goes here
}
catch(Exception e3) { //code goes here
}

D.
Enclosing line 6 and line 7 within a try block and adding:
catch (MissingInfoException e2) { //code goes here
}
catch (AgeOutofRangeException e3) {//code goes here
}

Ex7
Given:

```
public class Case{
	public static void main(String[] args){
		String product = "Pen";
		product.toLowerCase();
		product.concat(" BOX".toLowerCase());
		System.out.print(product.substring(4, 6));
	}
}
```

What is the result?

A.box

B.nbo
C.bo
D.nb
E.An exception is thrown at runtime

Ex8
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

Ex9
Which code fragment cause a compilation error?

A.float flt = 100F;

B.float flt = (float) 1_11.00;

C.float flt = 100;

D.
double y1 = 203.22;
float flt = y1;

E.
int y2 = 100;
float flt = (float) y2;

Ex10
Given:

Acc.java
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.