Java: Exception

Quiz

Question 1

```
public class AssertTest{
private void m1(int i){
assert i >= 0 : m2();
System.out.println(i);}
public void m2()      {
System.out.println("The value must not be
  negative");}
public static void main(String args[]) {
AssertTest test = new AssertTest();
test.m1(-10);    }       }
```

What will happen when you attempt to compile and run the code with –ea option?

A. **Prints -10**
B. **Throws AssertionError with message "The value must not be negative"**
C. **Code will not compile**
D. **None of the above**

Question 2

```
class A {
  public static void main (String[] args) {
   Object error = new Error();
   Object runtimeException = new RuntimeException();
   System.out.print((error instanceof Exception) + ",");
   System.out.print(runtimeException instanceof
   Exception);
}}
```

Code prints

A. false,false

B. false,true

C. true,false

D. true,true

Question 3

```
class Test1{
static void display() throws Exception{
System.out.println("Hello");}
public static void main(String[] args) {
display();
}}
```

Which of the following are possible causes of compilation error in the code?

A. **`display()`** does not throw any Exception.

B. **`display()`** is incorrectly declared

C. **`main()`** must provide **`a try-catch`** block for **`display()`**

D. **`main()`** must be declared with **`throws Exception`** clause.

Question 4

Assertion should be used to

A. Validate arguments of a **`public`** method

B. Validate arguments of a **`private`** method

C. Validate user inputs

D. throw **`AssertionError`**

Question 5

Assume the following method declaration:

```
protected void f()throws java.io.IOException{}
```

Which of the following is NOT right way to override f()?

Given that **`FileNotFoundException is subclass of IOException`**

A. `protected void f()throws Exception`

B. `public void f() throws FileNotFoundException{}`

C. `public void f()`

D. `public void f() throws Error`

Question 6

Which of the following switches is/are used for controlling the execution of assertions at run time?

A.-ua

B.-da

C.-enableassertions

D.-assert

Question 7

```
class A {A() throws Exception {}} //
  line 1
class B extends A {B() throws Exception
  {}} // line  2
class C extends A {C(){}} // line 3
```

What will happen on compilation of the code?

A. Compilation error at line 1
B. Compilation error at line 2
C. Compilation error at line 3
D. Code compiles clean

Question 8

```
class Test1{
public static void m1(int i){
try{ assert i == 10; }
catch(Throwable e){i = 20;}
System.out.println(i);
}
public static void main(String[] args) {
m1(5);}
}
```

Select the correct statement

A. Code will print 5 if executed with –ea option
B. Code will print 20 if executed with –ea option
C. Code will not compile
D. Code will print AssertionError at runtime when executed with –ea option.

Question 9

Which of the following are checked exceptions?

A.ArrayIndexOutOfBoundsException

B.IllegalArgumentException

C.CloneNotSupportedException

D.NullPointerException

Question 10

Which of the following are unchecked exceptions?

A. `IOException`

B. `IllegalArgumentException`

C. `SQLException`

D. `AssertionError`

Question 11

```
class A{
public static void main(String[] args) {
try{
try{
int i=10/0;
}catch( Exception e){
       System.out.println("caught inside");}
}catch(ArithmeticException e){
    System.out.println("caught outside");
}}}
```

What is the result of compilation/execution of the code?

A. Code does not compile
B. Code compiles and prints nothing
C. Code compiles and prints "caught outside"
D. Code compiles and prints "caught inside"

Question 12

```
class A{
public static void main(String[] args) {
try{
int i=10/0;
}catch( Exception e){
      System.out.println("caught inside");}
catch(ArithmeticException e){
   System.out.println("caught outside");
}}}
```

What is the result of compilation/execution of the code?

A. Code does not compile
B. Code compiles and prints nothing
C. Code compiles and prints **"caught outside"**
D. Code compiles and prints **"caught inside"**

Question 13

A **`try`** block

A. Should have at least 1 **`catch`** block
B. Should have at least 1 **`finally`** block
C. Should have either a **`catch`** block or **`finally`** block
D. Should have both a **`catch`** block and **`finally`** block

Question 14

```
class Test1{
public static void m1(int i) {
try{
if(i<0) return;
int j=10/i;
}catch( Exception e){System.out.println("caught ");}
finally{System.out.println("thanks");}
System.out.println("bye");
}
public static void main(String[] args) {
m1(-10);}}
```

A code prints which of the following string(s)?

A. caught
B. thanks
C. bye
D. None of them

Question 15

```
class Test1{
public static void m1(int i) {
try{
if(i<0) return;
int j=10/i;
}catch( Exception e){System.out.println("caught ");}
finally{System.out.println("thanks");}
System.out.println("bye");
}
public static void main(String[] args) {
m1(-10);}}
```

A code prints which of the following string(s)?

A. caught
B. thanks
C. bye
D. None of them

Question 16

Assume the following method declaration:

```
protected void f() throws
  CloneNotSupportedException
```

Which of the following is NOT the right way to override f()?

A. `protected void f()throws Exception`

B. `public void f()throws RuntimeException`

C. `public void f()`

D. `public void f() throws Error`

Question 17

```
public class Flower implements Cloneable{
// insert method declaration here
{(Flower) super.clone();}
}
```

Which of the following is/are NOT right declaration for clone method?

A. `public Object clone()`

B. `protected Object clone()throws CloneNotSupportedException`

C. `Object clone()throws CloneNotSupportedException`

D. `public Flower clone()`