### **JUnit Practice KBA**

**Due** Oct 23 at 8am **Points** 21 **Questions** 21

Available Oct 21 at 3pm - Oct 23 at 8am 1 day Time Limit None

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	19 minutes	14 out of 21

(!) Correct answers are hidden.

Submitted Oct 23 at 6:54am

**Partial** 

Question 1	0.67 / 1 pts
What are some of the available techniques to test expected exceapply.	eptions? Choose all that
Use of 'expected' attribute inside @Test annotation.	
Try-catch with fail() statement	
✓ Verification with the ExpectedException rule.	
None of the listed options	

### Incorrect Question 2

0 / 1 pts

Which of the following is true about Parameterized test?

Runs several sets of test data against the same test case.

Runs a test once with fixed sets of	parameters.
It is used to bundle a couple of un	it test cases and run them together.
<ul><li>With Parameterized tests you can test</li></ul>	wether the code throws a desired

### Incorrect

### Question 3 "@AfterClass" annotation can be used only with static methods. State true or false. True False

### Question 4 1 / 1 pts

### Which statement is true about this program?

### Given the class MyClass as follows:

```
public class MyClass {

public int multiply(int x, int y) {

// the following is just an example

if (x > 999) {

throw new IllegalArgumentException("X should be less than 1000");
}

return x / y; }
}
```

### What would be the outcome of the following test?

public class MyClassTest {
@Test(expected = IllegalArgumentException.class)
<pre>public void testExceptionIsThrown() {</pre>
MyClass tester = new MyClass();
tester.multiply(1000, 5); }
}
The testExceptionIsThrown() test cases executes without any exception.
The testExceptionIsThrown() test case fails.
The testExceptionIsThrown() test case is successful.
The program has syntax errors.

### Incorrect

## Which of the following Hamcrest matchers tests for null value? isNull nullValue isNullValue isNullable

### Partial

### Question 6 0.67 / 1 pts

Which of the following are some good reasons to use Mock objects in Junit testing? Choose all that apply.

<b>✓</b>	The real obbject has non-deterministic behaviour and is difficult to set up.
	None of the listed options.
	The real object is not yet available.
	e real object is too complex to be used in a unit test because it depends on ernal resources.

### Incorrect

Question 7 0 / 1 pts

```
What would be the output if we run the following code?
import org.junit.BeforeClass;
import org.junit.Test;
public class Sample1 {
@BeforeClass
public void beforeClass(){
System.out.println("before class"); }
@Test
public void test1(){
System.out.println("test1"); }
}
    Ode compiles correctly but throws Exception during runtime.
    Compilation error
    Code compiles, runs successfully and prints: test1
    Ode compiles, runs successfully and prints: before class test1
```

Question 8	1 / 1 pts
A Junit test method should be public.	
True	
○ False	

Question 9	1 / 1 pts
What information does an object of the Failure class contains?	
Only the description of the failed test.	
Description of the failed test and the exception thrown while running	it.
O Description of the fail() method	
O Description of the exception thrown.	

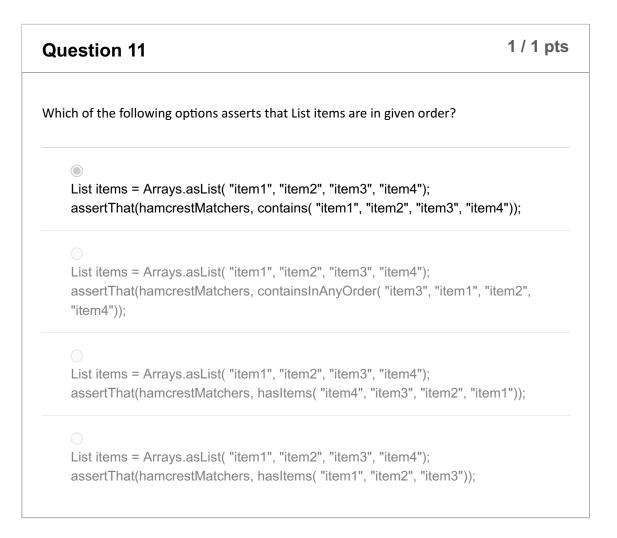
What are some of the best practices for Unit Testing? Choose all that apply.

Write a separate test class for each class that needs to be tested.

Declare test methods as private static.

Write at least two unit test cases for each requirement: one positive test and one negative test.

Mock out external services or state.	
Make each test not dependent on other tests.	



### Which of the following are conventions suggested by the JUnit framework? Name of the method must start with "test" Return type of the test method must be void. Test methods must not have any parameter.

- All of the mentioned.
- Name of the class must end with "Test"

Question 13 1 / 1 pts

```
What are the values of each of the member variables?
@RunWith(Parameterized.class)
public class ParameterizedTestFields {
// fields used together with @Parameter must be public
@Parameter(0) public int m1;
@Parameter(1) public int m2;
@Parameter(2) public int result;
// creates the test data
@Parameters public static Collection data() {
Object[][] data = new Object[][] { { 1, 2, 2}, { 5, 3, 15}, { 121, 4, 484 } };
return Arrays.asList(data);
}
@Test public void testMultiplyException() {
MyClass tester = new MyClass();
assertEquals("Result", result, tester.multiply(m1, m2));
}
// class to be tested
class MyClass {
public int multiply(int i, int j) {
return i *j;}
}}
```

I. m1 = 1, 5, 121 m2 = 2, 3, 4 result = 2, 15, 484
II. m1 = 0, 0, 0 m2 = 0, 0, 0 result = 0, 0, 0
III. m1 = 1, 2, 2 m2 = 5, 3, 15 result = 121, 4, 484

Which of the following methods of Assert class checks that a condition is true?

assertBoolean

assertCheck
assertChecks

Question 15

Junit TestSuite is a/an:

Container class, which is used to group multiple test cases into a collection and run them together.

Interface, which contains the declaration of all the methods and needs to be implemented by Test cases.

Defines test fixture, which contains all the test methods.
None of the listed options.

Question 16	1 / 1 pts
Which of the following are needed in order to write a Theory in Junit? Choose	all that apply.
✓ The class should be annotated with @RunWith(Theories.class)	
The class should have a data method that generates and returns test data annotating static member variables with @Datapoint.	, by
A test method with @Theory annotation.	
A public static method that returns a collection of objects with @Parametannotation.	cers

Question 17	1 / 1 pts
Which of the following statements is true regarding Test Fixture?	
There are two class-level fixture and two method-level ones.	
The purpose of fixture is to provide a fixed environment in which tests are that results are repeatabe.	run so
Test Fixture can help to setup mock objects	
All of the listed options	

# Which of the following methods of Assert class checks that two object references are not pointing to the same object? void assert(Object expected, Object actual, boolean isSame) void assertCheck(Object expected, Object actual, boolean isSame) void assertNotSame(Object expected, Object actual) void assertChecks(Object expected, Object actual, boolean isSame)

## Choose the appropriate @SuiteClasses annotation to run test classes Test1.class and Test2.class together. | "@SuiteClasses(value={Test1.class, Test2.class})" | "@SuiteClasses(value=All)" | "@SuiteClasses(Test1, Test2)" | "@SuiteClasses()"

### Which test case(s) will be reported? public interface FastTests { /\* category marker \*/ } public interface SlowTests { /\* category marker \*/ }

```
public class A {
@Test
public void a() {
fail();
}
@Category(SlowTests.class)
@Test
public void b() { }
}
@Category({ SlowTests.class, FastTests.class })
public class B {
@Test
public void c() { }
}
@RunWith(Categories.class)
@IncludeCategory(SlowTests.class)
@SuiteClasses({ A.class, B.class }) // Note that Categories is a kind of Suite
public class SlowTestSuite {
}
    All test cases.
    No test case will be reported.
    Only the test b() from class A will be reported.
    All test cases from class B and Only the b() test case from class A will be reported.
```

Question 21	1 / 1 pts
How many times would an @Before annotated method get executed if there methods in the test class?	e are three test
3	
O 1	
O 0	
O 2	