

Testing I Quiz

TOTAL POINTS 10

	Whi	ich of the following are reasons to write tests (select all that apply)?	1 point
	~	to ensure that new functionality operates as expected	
		to make apps run faster by reducing binary sizes	
		to measure how effective software developers are	
	~	to help make sure that changes to code do not break existing functionality	
2.	Whe	en building a new app, which of the following are true (select all that apply)?	1 point
		There is exactly one way to implement it.	
	~	Measuring the impact of changes is critical.	
		There is exactly one way to design it.	
	~	Finding the right design may be an iterative process.	
3.	Wha	at is a unit test (select all that apply)?	1 point
		a test that measures performance	
	~	a test that isolates a specific component for evaluation	
		a test of a single user interface element	
		a test that isolates multiple components for evaluation	
		a measurement of test coverage	
ı.	Whi	ich Java framework is used to write unit tests in Android (select all that apply)?	1 point
		Dagger	1 point
		Apache Commons	
		JUnit	
		Retrofit	
		Android	
		Allow	
j.	Why	y is it important for unit tests to run quickly (select all that apply)?	1 point
	~	to minimize the time developers wait for feedback on their code changes	
		to avoid blocking the main thread in an Android app	
		to minimize the startup time of the Android emulator	
		to minimize the number of mistakes that developers make	
		to ensure that user interface components are not slowed down	
).	Whi	ich of the following is a valid, although not useful, JUnit test (select all that apply)?	1 point
		1 @Test 2 * public void test() { 3	
		4 }	
		1 @Unit 2 public void ensureTrue() { 3 assertEquals(true,true);	
		4 3	
		1 @Unit 2 public void test() throws Exception (3 assert(true == true); 4)	

```
1 * public void test() {
2     ensureTrue(true);
3 }
              ### dest
2 * public void ensureTrue() {
3     assertEquals(true, true);
4 }
7. \quad \text{Which of the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not an appropriate way to setup the state for MyObject in the test below (select all that the following is not all the 
                                                                                                                                                                                                                                                                                                                                                                                                                             1 point
               apply)?
            private MyObject myObject;

gTest

d* public void testInitialName() {
    myObject = new MyObject();
    assertEquals("bob", myObject.getName());
    }

gTest
                               8
9 @Test
10 * public void testInitialSize() {
11
assertEquals(10, myObject.getSize());
12
}
           1 private MyObject myObject;
2 3 @Before
4 * public void setUp(){
5 myObject = new MyObject ();
6 }
7 8 @Test
9 * public void testInitialName() {
10 assertEquals("bob", myObject.getName());
11 }
12 }
13 @Test
14 * public void testInitialSize() {
15 assertEquals(10, myObject.getSize());
16 }
            7
8
9 * public void testInitialSize() {
10     assertEquals(10, myObject.getSize());
11 }
            7
8 @Test
9 * public void testInitialName() {
10 assertEquals("bob", myObject.getName());
11 }
            8. Assume that the MyObject.dangerous() function throws a checked exception. Which of the following are valid ways to 1 point
               write a test of MyObject (select all that apply).
            1 @Test
2 * public void someTest() {
3     MyObject obj = new MyObject();
4     assertEquals(false, obj.dangerous());
5     }
               i @Test
public void someTest() throws Exception {
    MyObject obj = new MyObject();
    4    assertEquals(false, obj.dangerous());
    5 }
            1 @Test
2 * public void someTest() {
3 * MyObject obj = new MyObject();
4 * try{
5 * assertEquals(false, obj.dangerous());
6 } catch(Exception e){ e.printStackTrace(); }
7 }
```

	<pre>1</pre>	
9.	What are valid uses of code coverage metrics (select all that apply)?	1 point
	techniques to help developers test faster	
	to determine if an app has been tested sufficiently	
	to guarantee that an app is bug free	
	to evaluate the quality of a development team	
	to determine where more testing may be needed	
10.	Which of the following are true about the test shown below (select all that apply):	1 point
	1 * public class SomeTest { 2 private MyObject myObject = new MyObject(); 3 4 @Test 5 * public void testInitialName() { assertEquals("bob",myObject.getName()); 7 7 8 8 9 @Test 10 * public void testInitialSize() { assertEquals(10,myObject.getSize()); 11 12 13 }	
	 The MyObject constructor will be called at least once for each @Test annotation in the class. The MyObject constructor will be called a single time before testinitialName() is executed and not called before any of the other test methods. The MyObject constructor will be called a single time before testinitialSize() is executed and not called before any of the other test methods. The MyObject constructor will not be called and testinitialName will throw a null pointer exception. The MyObject constructor will not be called and a @Before annotation is needed to provide a method to set the initial state of myObject. 	
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