DueSep 3, 11:59 PM IST

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<ol> <li>For a class Rectangle, which of these represents the correct syntax for defining an extension function getWidth?</li> <li>1 fun Rectangle getWidth(): Int</li> </ol>	1 / 1 point
<pre>1 fun Rectangle.getWidth(): Int</pre>	
1 fun getWidth <rectangle>(): Int</rectangle>	
Correct Correct. You use the dot operator after the class name and before the function name to define an extension function.	
<ul><li>2. For the extension function fun Rectangle.getWidth(): Int, what is the correct way to call the function in the code?</li><li>1 Rectangle.getWidth()</li></ul>	1 / 1 point
<pre>1 Rectangle().getWidth()</pre>	
1 getWidth(Rectangle())	
Correct Correct. You call an extension function using an instance of the class on which the function is defined.	
<ul> <li>Which type of testing is performed to test individual components of an application's code logic?</li> <li>Integration testing</li> <li>Unit testing</li> <li>End-to-end testing</li> </ul>	1 / 1 point
Correct Correct. Unit testing is performed to test individual components, also known as the unit under test.	
<ul> <li>4. While using JUnit, which annotation is used to mark a function as a unit test?</li> <li>@UnitTest</li> <li>@Test</li> <li>@JUnitTest</li> </ul>	1 / 1 point
Correct Correct. You use @Test annotation to mark a function as a test.  5. When should you use mocks in your tests?	1 / 1 point
When you need to define a complete alternate definition of an object to be used for testing.  When there are objects that are not to be tested but are needed because the code under test depends on them.  When you need to test only some specific behavior of an object  Correct	
Correct. You use mocks to simulate the behavior of objects that the test code depends on.  6. Which of these is a definition of the List collection type?	1 / 1 point
An unordered group of elements that cannot contain duplicate elements.  An ordered group of elements that can contain duplicate elements.  An unordered group of elements that can contain duplicate elements.  Correct  Correct. A List is an ordered group of elements that can contain duplicate elements.	
7. What is the output of the code below: 1 val numberSet = setOf(1, 8, 5, 7, 5, 2) 2 println(numberSet)	1 / 1 point
3	
[1,8,5,7,5,2] [1,8,5,7,2] [1,8,7,2]  Correct Correct. A set cannot contain duplicate elements.	
8. What is the output of the following code:  1	1 / 1 point
<ul> <li>{1=90, 2=93, 3=91, 4=93, 5=93}</li> <li>{1=90, 2=95, 3=91, 4=93, 5=93}</li> <li>{1=90, 2=93, 3=91, 4=93, 2=95, 5=93}</li> <li>✓ Correct         Correct. A map stores unique keys, but the values do not have to be unique.</li> </ul>	
9. Which of these represents the correct syntax for defining a generic class? 1 class <t> Item(t: T) { }</t>	1 / 1 point
① 1 class Item <t>(t: T) { }</t>	
1 class <t>.Item(t: T) { }</t>	
<ul> <li>Correct</li> <li>Correct. The generic parameter enclosed in the angle brackets is written after the class name.</li> </ul>	
10. Which of these represents the correct syntax for defining a generic function?  1 fun sampleFunction <t> (item: T) { }</t>	1 / 1 point
<pre>1 fun <t> sampleFunction(item: T) { }</t></pre>	

https://www.coursera.org/learn/advanced-programming-in-kotlin/exam/DQOC5/module-quiz-advanced-object-oriented-features/view-attempt

1 fun <T>.sampleFunction(item: T) { }