••	Which of the following statements is a key principle of testing?	1/1 point
	O You should run as few software tests as possible.	
	O You should prefer manual tests over automated tests.	
	You can only test for the factors that you know.	
	O You can save testing for the beta stage onward.	
	<sup>⊙</sup> Correct Correct! No matter how well developers design a product, they can only test what they know.	
<u>)</u> .	Testing has which of the following benefits for development?	1/1 point
	O Increases code readability	
	Improves code quality	
	O Reduces project spending	
	O Produces file backups	
	© Correct Correct! Testing allows developers to refactor code	
	and add new features with confidence.	
,	At which level of the software testing process do developers test the entire software process?	1/1 point
	At which level of the software testing process do developers test the entire software process?	1/1 point
	Integration testing     Acceptance testing	
	System testing	
	O Unit testing	
	⊗ Correct	
	Correct	
	Correct! In system testing, developers ensure that the entire system works together.	
	the chine system works together.	
١.	What is the purpose of integration testing?	1/1 point
	Expose flaws in the interaction between components	
	O Validate that each unit performs as designed	
	Assess the system's acceptability for delivery	
	Evaluate compliance with specific technical requirements	
	<b>⊘</b> Correct	
	Correct! The purpose of integration testing is to	
	expose flaws in the interaction between integrated	
	units or components.	

Behavior driven development (BDD) ensures which of the following for developers?	1/1 point
O at a second customer service	
O Identifying the code's purpose	
Building correct software     Writing concise code	
© Correct Correct! BDD ensures that developers are building the correct software.	
the correct software.	
In the basic workflow for test driven development (TDD), what happens in the third step?	1/1 point
O Write the program code.	
O Create the test case.	
O Describe the system's behavior.	
Improve the code's quality.	
Correct Correct! In the third step in the basic TDD workflow, developers refactor the code to improve its quality.	
In which Python testing framework can you use nearly an infinite number of setup and teardown levels?  RSpec	1/1 point
O Pytest	
O Doctest	
O PyUnit	
<sup>⊙</sup> Correct Correct! With Pytest, you can use nearly infinite setup and teardown levels.	
Assume you are using Python and have installed PyUnit, Nose, and Pinocchio. Which of the following commands can you use to perform unit tests and receive color-coded output?	1/1 point
onosetestswith-spec -cover-tests	
O unittestwith-spec –cover-tests	
O unittestwith-specspec-color	
nosetestswith-specspec-color	
Correct Correct! To perform unit tests and receive color- coded output, run nosetestswith-specspec-color.	

	<ul> <li>assertIn()</li> <li>assertIsInstance()</li> <li>assertRegex()</li> <li>assertLogs()</li> </ul>	
	<sup>⊙</sup> Correct  Correct! The assertion assertIn(a, b) checks if "a" is in the collection known as "b." This assertion is useful for determining if an object is in a result set.	
10.	PyUnit provides six test fixtures. Assume you include all six in a test module. Which of the following sequences shows the order in which the test runner will execute the final three test fixtures?	1 pc
	<ul> <li>tearDownClass, tearDownModule, tearDown</li> <li>tearDown, tearDownClass, tearDownModule</li> <li>setUpModule, tearDownModule, tearDown</li> </ul>	
	<ul> <li>tearDownModule, setUpModule, tearDownClass</li> <li>Incorrect</li> <li>Incorrect. Refer to the Test Fixtures video.</li> </ul>	
11.	How does a missing test coverage report help developers improve their testing?	1/1pc
	<ul> <li>Announces when no bugs remain in the code</li> <li>Reveals lines of code that need test cases</li> <li>Lists functions that respond to exceptions appropriately</li> <li>Shows the lines of code that have coverage</li> </ul>	
	Correct Correct! A missing test coverage report can reveal which lines were not tested so that developers can write more test cases that execute those lines.	
12.	When generating fakes in Python, what is one advantage of using the Faker class to generate fake data?  Arranges the test results in a logical order	1/1p
	<ul> <li>Creates a diverse set of test data</li> <li>Uses a small amount of code</li> <li>Decreases the number of attributes to test</li> </ul>	
	© Correct! Faker's providers generate a large, diverse set of data for the given attribute, such as address or barcode. The larger and more diverse your test data, the more comprehensive and reliable your testing will be. You may catch many bugs for which you might not have tested otherwise.	

9. Which of the following PyUnit assertions is useful for determining if an object is in a result set?

1/1 point

13.	Developers should use mocking for which of the following purposes?	1/1 point
	O Include internal systems in their testing	
	O Avoid calls of untested code	
	Ensure that database transactions actually work	
	Isolate their tests from a remote component	
	Correct Correct! Developers should mock any component to which they don't have a remote connection if that component is important for testing.	
14.	For which of the following purposes is it useful to patch return values with data?	1/1 point
	O Testing mocks	
	Controlling data returned from a function call	
	O Testing objects that call other objects	
	O Testing objects with method calls	
	Correct! Patching a function's return value with data is useful for controlling the data returned from a function call. You can pass back any data structure or object that your program expects. Using the return_value patch, you can return anything that can be returned as a return value from a function call.	
15.	Developers use mock objects for which of the following purposes?	1/1 point
	O Identifying a sad path	
	O Change a function call's parameters	
	Mimicking a real object	
	O Generating a data set	
	<b>⊘</b> Correct	
	Correct! Developers use mock objects to mimic the behavior of real objects in ways that the developers can control.	
16.	Which of the following characteristics is common to both behavior driven development (BDD) and test driven development (TDD)?	1/1 point
	O Value for testing individual units of software	
	O Focus on the system from the inside out	
	Emphasis on a test-first approach	
	O Goal of building the application correctly	
	Correct Correct! Like TDD, BDD is a test-first approach to development: the tests drive code development.	

17.	Using your specifications which item can you generate automatically with most behavior driven development (BDD) tools?	1/1 point
	<ul> <li>Technical documents</li> </ul>	
	O Testing factories	
	O Project schedules	
	O Kanban boards	
	Correct Correct! With most BDD tools, you can draw from specifications to automatically generate technical documentation.	
18.	What does the 'When' keyword specify at the beginning of a step in Gherkin syntax?	1/1 point
	Feature of the system and each of its related scenarios	
	O Conditions needed to put the system into the required state for testing	
	Actions taken by the user to interact with the system under test	
	Outcome expected from the actions that the user performs	
	Correct Correct! Steps that begin with the When keyword describe actions the user takes to interact with the system under test.	
19.	Which keyword displays first in a Gherkin document?	1/1 point
	Feature	
	O Scenario	
	O Background	
	O Given	
	<sup>⊙</sup> Correct Correct! In a Gherkin document, the first keyword is usually Feature, followed by a colon and a title.	

20.	If your step files are written in Ruby, which BDD tool will you use?  Behave Gherkin Cucumber Concordion	1/1 point
	Correct Correct! If your step files are written in Ruby, use Cucumber.	
21.	Which folder is used to store all Python files that contain step functions while using Behave?  functions  python  matches  steps	1/1 point
	Correct Correct! The steps subfolder is where you must include all Python files that contain step functions that match the Gherkin statements in the feature files.	
	What are the before_feature() and after_feature() test fixtures ideally used for in Behave?  Establishing a clean environment before and after each feature  Setting up web drivers for tools like Selenium  Declaring the context values that all steps can access  Checking specific parts of your feature set	1/1 point
	○ Correct Correct! If you use multiple features, before_feature() and after_feature () test fixtures are ideal for setting up a clean environment before and after each feature.	
23.	What is the purpose of the background section in a feature?  Specify the context shared by all scenarios  Execute a scenario two or more times  Represent a business rule to implement  Check parts of the feature set selectively	1/1 point
	○ Correct Correct! Background is a test fixture that you use to specify a context shared by all scenarios in the feature. By including this context in the background section, you establish the context before every scenario.	

24.	Which Selenium function can you use to type input into an HTML input field?  text()  clear()  send_keys()  submit()	1/1 point
	<sup> </sup>	
25.	In a Gherkin feature, you have the following Gherkin statement:  When I visit the "FAQs Page"  What is the complete code needed in the first line of the corresponding Python step?  when ('I visit the %')  When I visit the "FAQs Page."  @when ('I visit the "FAQs Page")  @when	1/1 point
	Correct Correct! In the first line of a Python step, you must include a decorator corresponding to the Gherkin statement's keyword. You must also include a text string that matches the rest of the statement.	
26.	When Behave loads data from a Gherkin table, it converts each row into which type of Python collection?  Set  Tuple  List  Dictionary	1/1 point
	<sup>⊙</sup> Correct Correct! When Behave loads data from a Gherkin table, it converts each row into a Python dictionary.	
27.	When you run the Behave tool the first time against your feature file with no steps, what will the Behave tool do for you?  Give you only the missing steps  Will show a blank screen  Will only validate your steps  Give a set of suggested steps	1/1 point
	Correct Correct! If you haven't written any steps, then all of the steps are missing the first time you run Behave. Behave will seed your development efforts with suggested steps if this is the case.	

28.	Which steps show the NotImplementedError exception?	1 point
	O Failed steps	
	O Default steps	
	<ul> <li>Missing steps</li> </ul>	
	O Passed steps	
	Note of the implementing of the implementing of the implementation of the implementa	
29.	How can you pass information from one step to another?	1/1 point
	Store information in the context variable of one step and call the variable in another step	
	O Store the information in data and call the string function	
	O Store the information in import and call it from another step	
	O Store the information in the get method and call it from another step	
	○ Correct Correct! To pass information between steps, store it in the context variable of one step and call on that variable in another step.	
30.	What is the benefit of variable substitution?	1/1 point
	To make the steps generic and reusable	
	O To use different names for different variables	
	O To make the steps specific and clear	
	O To make one sentence in your feature file match a single unique step	
	Correct Correct! Variable substitution is used to make steps as generic as possible for maximum reuse.	