

### Question 1

1 pts

Lab Google Cloud Platform. This is concerning the Tour of Qwiklabs and Google Cloud. It states that you will learn all of the following, except one. Choose one.

- ☐ Learn about the Qwiklabs platform, and identify key features of a lab environment.
- ☒ Learn how to use the Linux command line interface.
- ☐ Learn how to access the Cloud Console with specific credentials.
- ☐ Learn about Google Cloud projects, and identify common misconceptions about them.
- ☐ Learn about Cloud Shell, and run commands that use the gcloud toolkit.

### Question 2

1 pts

Lab Google Cloud Platform. This is concerning the Creating a Virtual Machine lab. It states that you will do all of the following, except one. Choose one.

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- ☐ Create a virtual machine with the Cloud Console.
- ☐ Create a virtual machine with the gcloud command line.
- ☐ Deploy a web server and connect it to a virtual machine.
- ☒ Deploy the MySQL database server

### Question 3

1 pts

Lab Google Cloud Platform. This is concerning the Windows Server installation lab.

- ☐ SSH was used to connect to the Windows Server.
- ☒ RDP was used to connect to the Windows Server.
- ☐ X2Go was used to connect to the Windows Server.
- ☐ VNC was used to connect to the Windows Server.

#### Question 4

1 pts

Java JUnit5.

- ☐ JUnit5 is designed to perform load tests.
- ☒ JUnit5 is designed to perform regression tests.
- ☐ JUnit5 is designed to perform integration tests.
- ☐ JUnit5 is designed to perform component tests.

#### Question 5

1 pts

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Java JUnit5. The following annotations are used, in JUnit 5, except which one?  
Choose one.

- ☐ @BeforeClass
- ☐ @AfterClass
- ☐ @Before
- ☒ @Disable
- ☐ @After
- ☐ @Test

#### Question 6

1 pts

How do you test your practical skills, on Cisco's NDG Linux Unhatched course?

- ☒ Linux virtual machine
- ☐ AWS cloud
- ☐ Your Windows PC
- ☐ Your Linux PC

### Question 7

1 pts

How do you list the files in the current directory?

☐ List

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☐ list

☒ ls

☐ Ls

### Question 8

1 pts

How do you find out which directory you are in?

☐ printwd

☐ Printwd

☒ pwd

☐ Pwd

### Question 9

1 pts

Which of the following always changes you to your own personal directory called Documents, which is in your home directory?

☐ cd Documents

☒ cd: cd Documents

☐ cd /Documents

☐ cd /home/Documents

Which command do you use to rename or move files?

- ☒ mv
- ☐ Mv
- ☐ Move
- ☐ move
- ☐ rename

### Question 11

1 pts

If you have several students working on a Java project, on their own computer, which git features would you use.

- ☐ One master or main branch, for all students to share.
- ☒ One branch for each student, to work on their own feature changes.
- ☐ One pull request for each student.
- ☐ One push request for each student.
- ☐ One git remote repository for each student.

### Question 12

1 pts

A git repository is a collection of:

- ☐ Files
- ☐ Folders or directories

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- ☐ Files and folders or directories, but not all of their versions
- ☒ Files and folders or directories, including all of their versions

### Question 13

1 pts

The following git commands are basic and common, except which one? Choose one.

☐ git init

☐ git clone

☒ git revert

?

☐ git add

☐ git commit

### Question 14

1 pts

To access a Windows remote Server, you use the following server built in tool:

☒ SSH

☐ X2Go

☐ VNC

☐ RDP

### Question 15

1 pts

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The modern Windows Server scripting tool is:

☐ bash

☒ PowerShell

☐ DOS command batch files

☐ DOS script files

### Question 16

1 pts

For Linux, to allow provide a server GUI to a client, in the given lab, you used the following client program?

- ☐ SSH client
- ☐ RDP client
- ☐ X2Go client
- ☐ VNC client

### Question 17

1 pts

What is the always the first line in a Linux bash script?

- ☐ It depends on what the script is doing.
- ☒ ~~#!/bin/bash~~
- ☐ #/bin/bash
- ☐ #!bin/bash

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- ☐ /bin/bash

### Question 18

1 pts

What is the Selenium IDE?

- ☐ An application to record GUI events, for example typing in characters and clicking.
- ☐ A program API, to develop Java automation applications.
- ☐ A server side remote interface, to emulate several different Web browsers.
- ☒ ~~Similar to Java JUnit5, whereby different commands can be used to test Web server functionality.~~

What is Selenium Web Driver?

- ☐ An application to record GUI events, for example typing in characters and clicking.
- ☒ A tool to allow you to program, for example in Java, to automate the actions of a Web browser.
- ☐ Works like Selenium Web Driver, but the automation engine runs on a server.
- ☐ Selenium Web Driver is a unique Web browser used when testing.

### Question 20

1 pts

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Related to Selenium, when should the Java method, Thread.sleep (or a Selenium equivalent), be used?



It is not needed, as related to Selenium.

☐ It is used by the Selenium IDE, to add a delay.

☒ When used with the Selenium Web Driver or Grid, it adds a delay, for example, to allow time for the page fields to load.

☐ It is used by Selenium, when using multiple threads in your program.

### Question 21

1 pts

What is Docker?

☐ Allows you to coordinate the use of several physical servers.

☐ Used in conjunction with multiple virtual machines.

☒ A tool to make it easier to create, deploy, and run the same exact application and environment on different machines.

☐ A tool to install the same software on multiple physical machines.



### Question 22

1 pts

What is Selenium Grid?

- ☐ Works like Selenium Web Driver, and runs a can run just one type of Web browser.
- ☐ Works like Selenium Web Driver, with just one Host operating system, but supports two or more Web browser versions running on the same PC.

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☒ Runs the Web browsers on a server, supporting multiple Web browsers or Host operating systems per client.

☐ It is basically the Selenium IDE, running on a server.

### Question 23

1 pts

Which of the following test automation environments are free for commercial use?

- ☐ HP QTP
- ☐ IBM RFT
- ☐ Test Complete
- ☒ Selenium

### Question 24

1 pts

Selenium Web Driver uses various types of locators. Which of the following is NOT one of the locators?

- ☐ ID
- ☐ Link Text
- ☐ CSS Selector
- ☒ Attribute
- ☐ Xpath



What is a test environment? The course book refers to all of these, except one. Choose one.

- ☒ System executed during the tests.
- ☐ The production system is normally used as the test environment.
- ☐ Mimics as much as possible the environment in which the system will be executed in production.
- ☐ For a built-in system, the test environment is the hardware where the system will be executed, including the necessary software.

### Question 26

1 pts

Why are there limitations on how many test environments you can have? The course book refers to all of these, except one. Choose one.

- ☒ Because you need one physical server per application service.
- ☐ There are limited resources, and resources are needed for each test environment.
- ☐ The product may be in the form of a hardware solution, and it may be expensive to create multiple hardware solutions for testing.
- ☐ The presence of physical or virtual infrastructure, licenses, custom hardware, resource needs for managing the environments or other systems' test environments limits the number of possible test environments.

### Question 27

1 pts

1.1 Testing consists of two parts, both of which have the same goals, but whose purpose is to find different types of errors. What are the parts? Choose two.

- ☐ Exploratory Testing
- ☒ Static Testing
- ☐ Blackbox Testing
- ☒ Dynamic Testing

What is test data? The course book refers to all of these, except one. Choose one.

- ☐ Test data may consist of information sent or entered into the system and information stored in the system during the tests.
- ☐ Test data can be both basic data, and other information.
- ☐ A subset of the production data can be considered as test data.
- ☒ All of the production data can be considered as test data.

### Question 29

1 pts

Give three examples of types of test data. The course book refers to all of these, except one exception. Choose the exception.

- ☐ State is a form of test data. This can be system or object permissions. An object can in this context be, for example, a customer or a case.
- ☐ Database content is the information stored in the database or otherwise.

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☒ Sent email or SMS messages from Test systems

☐ Input is the information entered into the system via the user interface.

### Question 30

1 pts

Verification and validation are two aspects of testing. Both are equally important, but aim to identify different problems. What is the difference between verification and validation? Choose two.

☒ When the system is compared to the needs of the business, it is about validation.

☐ When the system is compared to the needs of the business, it is about verification.

☒ The verification detects if the system does not work as intended, ie. if the requirements are not met.

☐ The validation detects if the system does not work as intended, ie. if the requirements are not met.

What severity levels are usually broken into and what do they mean? The course book refers to all of these, except one. Choose that one.

- ☐ Critical error - Example: Everyone can access the pages that should be closed to unauthorized people.
- ☐ Major errors - Example: The error means that the person who reserved a book first is not the person who is offered the opportunity to borrow the book when it is available.
- ☐ Less important errors - The automatic correction of spelling errors does not work on a mobile phone app.

☒ Not an error - There are a few strange characters in the product names.



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### Question 32

1 pts

Describe how the consequences of an error are analyzed? The course book refers to all of these, except one. Choose one.

- ☐ Initial troubleshooting where you create a map as to in which situations it occurred and under what conditions the error occurs.
- ☐ Examination to determine if the error has already been reported.
- ☐ Analysis of the consequences of the error.

☒ If the error was encountered dynamically, test for error statically.



### Question 33

1 pts

Why automate testing? The book lists all of the following, except one? Choose one.

- ☐ Reduce the amount of repetitive work.
- ☐ Drastically reduce the system development cost
- ☐ Increase the amount of testing.
- ☐ Discover errors that computers are better at finding.

☒ Reduce the risks of changes.



☐ Save time.

## Question 34



1 pts

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What can make automation of user interface tests more difficult? The course book refers to all of these, except one. Choose one.

- ☐ If tools are not available they need to be developed.
- ☒ How easy is it to submit test data and read the result? Some tests are difficult to automate because of the system's structure. 
- ☐ Regression tests are examples of good candidates for automation.
- ☐ The tool must be able to determine whether something is wrong or not. The automatic tests must therefore not signal false errors.
- ☐ Tests that run a few times are not profitable to automate. 

## Question 35

1 pts

Why is the tester's work fun and challenging? The course book refers to all of these, except one. Choose one.

- ☐ Constant progress. There is a great deal of knowledge in the field and many types of working methods that one can be inspired and learned from.
- ☐ In order to carry out test work in an efficient manner, it is necessary to have knowledge in many areas, such as technology and different business areas. Is the 
- ☐ Working as a tester means constantly learning new things. It makes the profession stimulating.
- ☐ As a tester, you become something of an expert on the system and its use.
- ☒ As a tester, you are required to review the source code, to determine why an error occurred. 



## Question 36

1 pts

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It is self-evident that developers are testers. Why is it not enough for only developers to test? The course book refers to all of these, except one. Choose that one.

- ☐ Predicting and finding the errors in a complex application is not trivial.
- ☐ Each developer makes their own interpretation, based on their own knowledge and experience. With many developers in one project, different ways of thinking will be represented. The developers must therefore coordinate their work. But it will, with a high probability, occur errors that are caused by developers thinking differently.
- ☒ It is enough for only developers to test. They just need a little training on how to perform the unit testing, and other testing.
- ☐ Developers might not think of all the data combinations, that their Java Classes are called in, by other developers' Classes. The testers will have more experience and training in this field of testing.
- ☐ Testers often specialize in tests or some special type of tests, such as performance testing. Developers, in general, will not have this training.

## Question 37

1 pts

The \_\_\_\_\_ describes the development work as a number of phases where you first find out what to do and then how it should be done, in order to then develop and finally test the system.

- ☐ V-model
- ☒ Waterfall model
- ☐ Software Development Life Cycle
- ☐ Agile model

In the case of \_\_\_\_\_, the development is more flexible. Since the requirements can be specified iteratively for the development of different parts, it is easier to handle re-prioritization and other changes.

- ☐ V-model
- ☐ Waterfall model
- ☐ Software Development Life Cycle

☒ Agile model

### Question 39

1 pts

What distinguishes the developer's most common test work?

- ☐ Responsible for developing the system and performing integration tests.
- ☐ Responsible for developing the system, leading and controlling the test work.
- ☐ Responsible for formulating the requirements that must be set on the system's functions and properties.
- ☒ Responsible for developing the system and performing component tests.

### Question 40

1 pts

What is the advantage of independent testing?

- ☒ The tester has not developed the developed system.
- ☐ The development team believes that the independent testers have taken over the responsibility for the quality.
- ☐ There may be less communication between the developers and the independent testers.

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- ☐ The development team believes that the developers no longer need to perform the component tests, of their own code.

### Question 41

1 pts

Why can't you normally test everything? Choose two.

- ☐ You can normally test everything and you should normally test everything.
- ☒ There are difficult timing issues, when multiple tests are run at about the same time.
- ☒ It would require that the developers would also need to be testers.
- ☐ The software tools are designed to test everything.
- ☒ There can be too many combinations of information in the system

### Question 42

1 pts

Is it important to start the test work early?

- ☐ Yes, because all of the testing takes a long time.
- ☒ Yes, if developers learn of the defects more quickly, it takes them less time to fix the defects.
- ☐ No, the developers might change the code anyway, so it's best to wait until the system is done, code stop.
- ☐ No, normally risk assessments will determine when to test, and they normally suggest to test late in the development process.

### Question 43

1 pts

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Test work can be divided into three phases. What are two of them? Choose two.

- ☒ Preparatory tests
- ☐ Developer phase
- ☐ Stabilization of the delivery
- ☒ Test analysis and design



#### Question 44

1 pts

Mention two common mistakes in test planning. Choose two.

- ☒ Don't plan with sufficient calendar time.
- ☐ Plan for too many necessary activities.
- ☒ Miss important dependencies.
- ☐ Including time for testing introduction to project team members.

#### Question 45

1 pts

What steps should be taken to convey the status in a good way? The book refers to all of these, except one. Choose one.

- ☐ Communication is required both within the team and between the team and other stakeholders.
- ☐ The quality of the system.
- ☐ Identified errors and possible consequences for the business.
- ☒ Communication to the end user customer, as to how the detailed testing is planned.

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#### Question 46

1 pts

Which tools can be used in communication? The book refers to all of these, except one. Choose one.

- ☐ Mind maps with test areas / tests.
- ☐ Scrum or canvas boards.
- ☒ All of the developers source comments.
- ☐ Oral communication.

### Question 47

1 pts

If you do a Selenium Web Driver search with the selector "Link Text", but there are duplicates with the same Link Text, what happens?

- ☐ It always finds the first occurrence.
- ☐ The first time you invoke it, it finds the first occurrence, but the second time, it find the second occurrence.
- ☐ It returns an error.
- ☒ It finds all occurrences.

### Question 48

1 pts

What is BugZilla?

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- ☐ Bugzilla is a web-based bug detection software.
- ☐ BugZilla is the server component, of Selenium Grid.
- ☒ Bugzilla is a web-based bug-tracking software
- ☐ BugZilla is a resource planning tool, for testers to plan their testing time.

### Question 49

1 pts

What is the difference between test analysis and test design?

- ☐ With test design, one decides what to test. How it should be tested is determined in the test analysis.
- ☒ With test analysis, one decides what to test. How it should be tested is determined in the test design.
- ☐ With test analysis, one decides why to test. Why it should be tested is determined in the test design.
- ☐ With test analysis, one decides when to test. Why it should be tested is determined in the test design.

## Question 50

1 pts

What is meant by stable systems? The book refers to all of these, except one.  
Choose one.

☐ Does not take unreasonably long time to respond.

☐ Doesn't crash.

☒ There is a memory leak.

☐ Not only partially succeeds, but fully succeeds.