

PtU™ Certified Performance Tester with JMeter (CPTJM)

Sample Exam – 10 questions

Released

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Performance Tester United



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Purpose of this document

This document includes a partial sample exam for the PtU Certified Performance Tester with JMeter (CPTJM) examination in English.

The sample questions, answer groups and associated justifications included in this document were created by a team of subject-matter experts and experienced question creators with the objective of helping people planning to take the Certified Performance Tester with JMeter (CPTJM) examination.

None of these questions will be used in the official PtU Certified Performance Tester with JMeter (CPTJM) examination, but they have been written with the same level of difficulty as the official certification examination. The training providers recognized by Performance Testing United can use these questions as part of their training to prepare students for the exam.

Instructions

The groups of questions and answers are organized in the following way:

- Learning objectives (LOs) / Chapters
- Question – including any scenario followed by the source of the question
- Answer group

General Information related to the Sample Exam

- Number of questions: 10
- Number of points: 1 per question
- Please, select the number of responses indicated in each question.

Chapter List

- Chapter 1 – Introduction
- Chapter 2 – Basic scripts
- Chapter 3 – Advanced scripting

- Chapter 4 – Test execution
- Chapter 5 - Documentation
- Chapter 6 - Extra

Main List of Learning Objectives (LO) for the PtU CPTJM certification:

LO1	Understand what performance testing is and the different types of performance testing. (K2)
LO2	Understand the methodology for performance testing. (K2)
LO3	Identify the different types of tools used for performance testing. (K1)
LO4	Understand the basics of the HTTP(S) protocol. (K2)
LO5	Understand why JMeter is used for performance testing. (K2)
LO6	Install and run JMeter on Windows and Linux. (K3)
LO7	Understand and apply the main elements to build a test plan in JMeter. (K2)
LO8	Create basic scripts by recording a session and running it in JMeter. (K3)
LO9	Analyze the results of the tests through different reports. (K3)
LO10	Understand the concept of correlation and how to use regular expressions. (K2)
LO11	Apply the use of regular expressions to manage correlation in JMeter. (K3)
LO12	Understand the concept of parameterization. (K2)
LO13	Build and configure data sources for use in the test script. (K3)
LO14	Understand and apply timers, assertions and controllers in JMeter. (K3)
LO15	Debugging a script in JMeter. (K3)
LO16	Preparation of the scripts for the execution of the tests. (K3)

LO17	Run tests using the command line mode. (K3)
LO18	Execution of the tests through the distributed mode. (K1)
LO19	Understand how system resources are monitored during performance testing and their main indicators. (K2)
LO20	Apply basic monitoring tools during the execution of performance testing. (K3)
LO21	Performance testing documentation. (K2)
LO22	Understand best practices when using JMeter. (K2)
LO23	Execution of scripts for web services. (K3)

Question 1

(The correct answer is worth 1 point)

Indicate **ONE** which of the following statements is **INCORRECT**.

- (a) The HTTP(S) protocol enables the communication between a client and a server.
- (b) The HTTP(S) protocol is a stateless protocol.
- (c) The HTTP(S) protocol is one of the least used ones currently to surf the Internet.
- (d) The HTTP(S) protocol is used by web browsers to surf the Internet.

Question 2

(The correct answer is worth 1 point)

Indicate the **CORRECT** statements regarding JMeter:

- i) JMeter makes it possible to extend its functionalities through complements.
- ii) JMeter is not a web browser.
- iii) JMeter does not support SOAP/REST web service tests.
- iv) JMeter is a free and open source tool

Indicate the answer below that includes all **CORRECT** options from the question above.

- (a) i, ii, iv
- (b) iii, iv
- (c) i, ii, iii
- (d) i, ii

Question 3

(The correct answer is worth 1 point)

Which **ONE** of the following statements regarding JMeter is **CORRECT**?

- (a) JMeter is executed on Windows without the need to have Java installed.
- (b) JMeter is executed on Linux without the need to have Java installed.
- (c) JMeter can be executed on both Windows and Linux, always with Java installed.
- (d) JMeter does not require Java and can be executed on both Windows and Linux.

Question 4

(The correct answer is worth 1 point)

Match the concepts to their descriptions:

- 1) Defines a tree structure for how, when, and what to test, providing the execution of a set of actions.
 - 2) It is configured to invoke a specific URL.
 - 3) Stores information regarding the session of the user executing the application.
 - 4) Reduces latency and resource download times, and, in addition, reduces network traffic between the client and the server.
-
- a) Cache
 - b) Test Plan
 - c) Cookies
 - d) HTTP(S) Request
-
- (a) 1-b, 2-d, 3-a, 4-c
- (b) 1-b, 2-d, 3-c, 4-a
- (c) 1-c, 2-d, 3-a, 4-b
- (d) 1-d, 2-c, 3-a, 4-b

Question 5

(The correct answer is worth 1 point)

Complete the following statement. Embedded resources _____.

- (a) are not to be considered for test executions since they are stored in the cache.
- (b) are associated with a request, and are generally images, CSS files, JavaScript files, among others.
- (c) are associated with servers; for example, CPU and memory
- (d) are used to monitor infrastructure

Question 6

(The correct answer is worth 1 point)

Indicate all correct statements regarding results listeners:

- i) They make it possible to execute test scripts.
- ii) They open a previously stored file to visualize test results.
- iii) The information can be stored on a file.
- iv) The information can be viewed in the form of a table, tree or graph.

Indicate the answer below that includes all **CORRECT** options from the question above.

- (a) i, ii
- (b) iii, iv
- (c) i, ii, iii
- (d) ii, iii, iv

Question 7

(The correct answer is worth 1 point)

A CSV file is loaded with the following data:

2,Ana,Guerra
3,Juan,Rodriguez
12,Esteban,Pereira
6,Monica,Martinez
8,Pepe,Torres

In JMeter, a “CSV Data Set Config” element is defined where the path is indicated for this file, and variables “id”, “name” and “lastName” are defined in order to be used in the script.

If the script is executed for the first time with only one thread/user; during the third iteration, what are the values taken on by each variable?

- (a) \${id} takes on the value “3”
\${name} takes on the value “Juan”
\${lastName} takes on the value “Rodriguez”
- (b) \${id} takes on the value “3”
\${name} takes on the value “Esteban”
\${lastName} takes on the value “Pereira”
- (c) \${id} takes on the value “12”
\${name} takes on the value “Esteban”
\${lastName} takes on the value “Pereira”
- (d) \${id} takes on the value “12”
\${name} takes on the value “Juan”
\${lastName} takes on the value “Rodriguez”

Question 8

(Both correct answers are worth 1 point)

Which **TWO** of the following commands are used in command line mode to specify the proxy authentication username and password in JMeter? (Select the **TWO CORRECT** options)

- (a) -u
- (b) -r
- (c) -j
- (d) -a
- (e) -z

Question 9

(The correct answer is worth 1 point)

Given that an application has a Home page and another Login page, indicate what the valid HTML is to extract a dynamic value sent from the server with the following regular expression: valueID: “(\.+)”

- (a) Response to the Home request:
<!DOCTYPE html><div id=“navMainSearch” class=“forward”><form name=“quick_find_” action=“<http://mydomain.com/website>” method=“get”>valueID:“/er4e6wygte63w334tbtr545”
- (b) Request for the Login page:
POST data, securityToken=797f38937; &user=test1&password=password12345, action=“<http://mydomain.com/website>” method=“get”>valueID:“\er4e6wygte63w334tbtr545”
- (c) Response for the Login request:
<!DOCTYPE html><div id=“navMainSearch” class=“forward”><form name=“quick_find_” action=“<http://mydomain.com/website>” method=“get”>valueID:“\r4e6wygte63w334tbtr545”
- (d) Response for the Home request:
<!DOCTYPE html><div id=“navMainSearch” class=“forward”><form name=“quick_find_” action=“<http://mydomain.com/website>” method=“get”>vaueID:“+.?er4e6wygte63w334tbtr545”

Question 10

(The correct answer is worth 1 point)

Complete the following statement:

The _____ is the document that guides the testing process, where the main decisions and agreements are included.

- (a) performance test plan
- (b) test script
- (c) user manual
- (d) results report

Answer Key

Question 1 - Answer: **C**

Question 2 - Answer: **A**

Question 3 - Answer: **C**

Question 4 - Answer: **B**

Question 5 - Answer: **B**

Question 6 - Answer: **D**

Question 7 - Answer: **C**

Question 8 - Answer: **A, D**

Question 9 - Answer: **C**

Question 10 - Answer: **A**