

X

<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

sneha18157@cse.ssn.edu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Software Testing (course)

Course outline

How does an NPTEL online course work?

Pre-requisite Assignment

Week 1

- Lecture 1 - Motivation (unit? unit=6&lesson=7)
- Lecture 2 - Terminologies (unit? unit=6&lesson=8)
- Lecture 3 - Testing based on Models and Criteria (unit? unit=6&lesson=9)
- Lecture 4 - Automation - JUnit as an example (unit? unit=6&lesson=10)
- Feedback for week 1 (unit? unit=6&lesson=11)

Assignment 1

The due date for submitting this assignment has passed.

Due on 2020-09-30, 23:59 IST.

Assignment submitted on 2020-09-30, 23:16 IST

1) Which of the following best defines a test case as per the lectures? **1 point**

- ☐ A test case contains inputs to software.
- ☒ A test case contains inputs and expected outputs to software.
- ☐ A test case contains inputs to software, which is run and the actual output is also recorded as a part of the test case.
- ☐ A test case contains inputs and a decision on pass or fail.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A test case contains inputs and expected outputs to software.

2) Which of the following represents a failed test case execution? **1 point**

- ☐ The program doesn't complete execution when run with the test case and stops with an error or exception.
- ☒ The program produces an output different from expected output.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The program produces an output different from expected output.

3) Which of the following represents usability testing? **1 point**

- ☐ Testing done by an user of the software.
- ☐ Testing done to see if the software is usable in the sense that it meets its functionality.
- ☒ Testing done to evaluate the software's user interface and its design.

● Quiz:
Assignment 1
(assessment?
name=114)

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

DOWNLOAD
VIDEOS

Text Transcripts

Live sessions

☐ Testing done to see if the software is fast enough to be usable.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Testing done to evaluate the software's user interface and its design.

4) For a tester to observe an error or a fault in a particular location of a program, which **1 point** of the following should be true?

- ☐ The location of the program should be reachable by the test case given by the tester.
- ☐ The location of the program should be reachable by the test case given by the tester and the state of the program must be incorrect at that location.
- ☒ In addition to the above two conditions, the final state of the program should be incorrect.
- ☐ The tester should see the error in the program.

Yes, the answer is correct.

Score: 1

Accepted Answers:

In addition to the above two conditions, the final state of the program should be incorrect.

5) When do we say that a set of test cases T satisfies test requirements TR for a coverage criterion C . **1 point**

- ☐ For every test requirement $tr \in TR$, there is exactly one test case $t \in T$ such that t satisfies tr .
- ☐ For some test requirement $tr \in TR$, there is some test case t such that $t \in T$ such that t satisfies tr .
- ☐ For some test requirement $tr \in TR$, all the test cases $t \in T$ are such that t satisfies tr .
- ☒ For every test requirement $tr \in TR$, there is at least one test case $t \in T$ such that t satisfies tr .

Yes, the answer is correct.

Score: 1

Accepted Answers:

For every test requirement $tr \in TR$, there is at least one test case $t \in T$ such that t satisfies tr .

6) When do we say that a coverage criterion C_1 subsumes C_2 ? **1 point**

- ☐ C_1 subsumes C_2 iff some test case that satisfies C_1 also satisfies C_2 .
- ☒ C_1 subsumes C_2 iff every test case that satisfies C_1 also satisfies C_2 .

Yes, the answer is correct.

Score: 1

Accepted Answers:

C_1 subsumes C_2 iff every test case that satisfies C_1 also satisfies C_2 .

7) What does the JUnit assertion `assertFalse(val1 > val2)` return when `val1` is greater than `val2`? **1 point**

- ☐ True.
- ☒ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

False.

8) State true or false: In JUnit, if you allocate external resources in a `@Before` method, **1 point** you need to release them after the test runs using an `@After` method.

☒ True.

☐ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.

9) In which of the levels of testing, do testers use testing to show errors in software? **1 point**

☒ Level 3.

☐ Level 4.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Level 3.

10) Which of the following represents an adjacent activity in testing? **1 point**

☐ Test automation.

☐ Test execution.

☐ Test evaluation.

☒ Test documentation.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Test documentation.