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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=17&lesson=18)
- Lecture 2 Terminologies
  (unit?
  unit=17&lesson=19)
- Lecture 3 Testing based
   on Models and
   Criteria (unit?
   unit=17&lesson=20)
- Lecture 4 Automation JUnit as an
  example (unit?
  unit=17&lesson=21)

## Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2022-08-10, 23:59 IST.

## Assignment submitted on 2022-08-09, 11:26 IST

- - Functional testing.
  - Unit testing.
  - Integration testing.
  - System testing.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Integration testing.

- 2) State true of false: A coverage criterion  $C_1$  said to subsume another coverage criterion  $C_2$  if there is at least one test case that satisfies  $C_1$  which also satisfies  $C_2$ .
  - True.
  - False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

3) State true or false: Testing can be used to find **all** the errors in code.

1 point

- True.
- False.

Practice: Week 1: Assignment 1 (Non Graded) (assessment? name=112) Quiz: Week 1 : Assignment 1 (assessment? name=136) Week 1 Feedback Form: Software Testing (unit? unit=17&lesson=124) Week 2 () Week 3 () Week 4 () Week 5 () Week 6 () Week 7 () Week 8 () Week 9 () Week 10 () Week 11 () Week 12 () Learning Materials () **DOWNLOAD** VIDEOS () Text Transcripts () Live sessions ()

No, the answer is incorrect. Score: 0 Accepted Answers: False. 4) Which of the following are practised in level 3 thinking during testing? 1 point Testing is a mental discipline, everyone in an organization strives to test thoroughly. Testing is done mainly by developers, to debug their code. Testing is done to identify failures and reduce risks. Testing is done to show absence of errors. Yes, the answer is correct. Score: 1 Accepted Answers: Testing is done to identify failures and reduce risks. 5) Which of the following best defines usability testing? 1 point Testing done to ensure that the software looks nice. Testing done to ensure that the software is usable by all the users. Testing done to understand how users can use a software. Testing done to ensure that the user interface of the software is as specified in the requirements. Yes, the answer is correct. Score: 1 Accepted Answers: Testing done to ensure that the user interface of the software is as specified in the requirements. 6) Which of the following is a list of white-box testing techniques? 1 point Unit testing, performance testing. Integration testing, stress testing. Unit testing, integration testing. Usability testing, performance testing. Yes, the answer is correct. Score: 1 Accepted Answers: Unit testing, integration testing. 7) As per the lectures, which of the following sentences best defines a test case? 1 point A test case contains only inputs to the software artifact. A test case contains inputs to the software artifact along with the expected outputs. A test case contains inputs to the software artifact and a decision on pass or fail. A test case contains inputs to the software artifact, which is run and the actual output is also recorded as a part of the test case. Yes, the answer is correct. Score: 1 Accepted Answers: A test case contains inputs to the software artifact along with the expected outputs.

Books ()

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

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.

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

 $\overline{C_1}$  subsumes  $C_2$  iff some test case that satisfies  $C_1$  also satisfies  $C_2$ .

 $\stackrel{\smile}{C}_1$  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  $C_2$ .

10) What does the JUnit assertion assertFalse(val1 > val2) return whenval1 is less than **1 point** val2?

True.

False.

No, the answer is incorrect.

Score: 0

Accepted Answers:

True.