

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0 Assignment 0

Week 1

- Lecture 1: Introduction
- Lecture 2: Levels of Testing
- Lecture 3: Basic Concepts in Testing
- Lecture 4: Basic Concepts in Testing (Contd.)
- Lecture 5: Unit Testing
- Quiz : Week 1 Assignment 1
- Week 1 Feedback Form
- Lecture material of Week 1

Week 2

Week 3

Week 4

Text Transcripts

Download Videos

Detail Solution

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Week 1 Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

- 1) Which one of the following is **true** concerning verification? 1 point
- a. Helps answer the question: "Have you built the right thing?"
 - b. Checks a final product against its specification.
 - c. Usually carried out by the test team.
 - d. Checks whether an artifact produced at the end of a phase conforms to the corresponding artifact produced in a previous phase.
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d.
- 2) Which one of the following can be inferred from the pesticide paradox? 1 point
- a. More number of bugs are detected towards the end of testing
 - b. More severe bugs are detected towards the end of testing
 - c. After a test methodology has been used on a program to detect bugs, it is ineffective for detecting the remaining bugs
 - d. A set of test methodologies should be applied again and again until all bugs are eliminated
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 3) Suppose an untested program was determined to contain 640 bugs. Three different testing techniques were applied to test the code. Each testing technique is effective to detect 50% of the bugs that exist before the concerned testing technique is applied. While fixing a bug after the application of a test strategy, there is a 50% chance of creating another bug. How many bugs would exist in the code after the three testing and bug-fix cycles have been carried out? 1 point
- a) 200
 - b) 270
 - c) 350
 - d) 448
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b)
- 4) Why is it necessary to test a large program at three different levels: unit, integration, as well as the system level, rather than thoroughly testing only at the system level? 1 point
- a. It reduces the number of test cases that need to be designed
 - b. It reduces the test execution effort
 - c. It reduces the debugging effort
 - d. It reduces test case design effort.
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 5) Pick the correct statement from the following: 1 point
- a. Every programming error causes a fault
 - b. Every programming error is caused by a failure
 - c. Every failure is caused by a fault
 - d. Every bug causes a failure
- a.
 b.
 c.
 d.
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
c.
- 6) During unit testing, which one of the following provides the non-local data structures to the unit under test for accessing? 1 point
- a) Stub
 - b) Driver
 - c) Both stubs and drivers
 - d) Test cases
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
b)
- 7) Unit testing of a software module does NOT test which one of the following? 1 point
- a) Whether the module interfaces well with other modules.
 - b) Whether the functions in the module are working as per design.
 - c) Whether all arithmetic statements in the module are working properly.
 - d) Whether all control statements in the module are working properly.
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a)
- 8) Which statement below BEST describes performance testing? 1 point
- a) The process of testing a fully integrated system to verify that it meets its specified function requirements.
 - b) The process of testing to determine the compliance of a system to coding standards.
 - c) Testing without reference to the internal structure of a system.
 - d) Testing system attributes, such as usability, reliability, and maintainability.
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
d)
- 9) What is the purpose of smoke test? 1 point
- a) Check sanity of the developed system
 - b) Carry out a final round of testing of the software after black-box and white-box test are over
 - c) Carry out performance testing
 - d) Carry out usability testing
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a)
- 10) Who among the following performs acceptance testing? 1 point
- a) Customers
 - b) Quality assurance team
 - c) Developers
 - d) System analysts
- a)
 b)
 c)
 d)
- No, the answer is incorrect.**
Score: 0
Accepted Answers:
a)