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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

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

- ☒ Testing of web Applications and Web

Assignment 10

The due date for submitting this assignment has passed.

Due on 2020-11-25, 23:59 IST.

Assignment submitted on 2020-11-24, 23:28 IST

1) What do the edges with dashed arrows between nodes at a level in a yo-yo graph represent? **1 point**

- ☐ They depict the actual method calls that can be made if an object has the actual type of that level.
- ☒ They depict the method calls that cannot be made due to over-riding.

Yes, the answer is correct.

Score: 1

Accepted Answers:

They depict the method calls that cannot be made due to over-riding.

2) If a descendent class does not override any inherited method and there is no polymorphic behaviour, then which fault/anomaly does it represent? **1 point**

- ☐ State definition anomaly.
- ☐ Polymorphic behaviour anomaly.
- ☒ Inconsistent type use fault.
- ☐ State visibility anomaly.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Inconsistent type use fault.

3) State true or false: In OO-applications, definitions and uses of variables can be indirect as we cannot determine which version of the methods will potentially execute. **1 point**

Services (unit?
unit=70&lesson=71)

● Testing of web Applications and Web Services (unit?
unit=70&lesson=72)

● Testing of web Applications and Web Services (unit?
unit=70&lesson=73)

● Testing of Object-Oriented Applications (unit?
unit=70&lesson=74)

● Testing of Object-Oriented Applications (unit?
unit=70&lesson=75)

○ Software testing : Feedback for week 10 (unit?
unit=70&lesson=76)

● Quiz: Assignment 10 (assessment?
name=127)

Week 11

Week 12

DOWNLOAD VIDEOS

Text Transcripts

Live sessions

- ☒ True.
☐ False.

Yes, the answer is correct.
Score: 1

Accepted Answers:
True.

4) Do the coverage criteria "All-Coupling-Sequences" and "All-Coupling- Defs-Uses" **0 points** consider polymorphism?

- ☐ These two criteria consider only inheritance and not polymorphism.
☒ These two criteria also consider polymorphism.

Yes, the answer is correct.
Score: 0

Accepted Answers:
These two criteria also consider polymorphism.

5) What is the main goal in testing of static websites?

1 point

- ☐ To check if all links lead to correct pages.
☒ To check if there are any dead links.

Yes, the answer is correct.
Score: 1

Accepted Answers:
To check if there are any dead links.

6) Which of the following lists different kinds of client side testing for web applications? **1 point**

- ☐ Testing based on user history that is logged at the server.
☐ Testing based on screens that a user passes through while navigating.
☐ Testing based on clients bypassing different kinds of server validation.
☒ Testing based on user session data and on bypassing client side validation.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Testing based on user session data and on bypassing client side validation.

7) Suppose a particular web application server produces the error message "Unrecognized input format" in response to a wrong text entered as a part of a HTML form input, what kind of server response will it be classified as? **1 point**

- ☒ Valid server response.
☐ Invalid server response.
☐ Server crash.
☐ Data corruption in server.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Valid server response.

8) Why are control flow graphs not suitable for web applications testing?

1 point

- ☐ It is not clear whether to consider models for client or server.
☒ They are static models and do not represent dynamic flow of control.

- ☐ There are no control flow graph models in code for web applications.
- ☐ Just control flow is not enough, we need to consider data flow also.

Yes, the answer is correct.

Score: 1

Accepted Answers:

They are static models and do not represent dynamic flow of control.

9) In web applications testing, what is the name for a variable that provides data to an **1 point** atomic section?

- ☐ State variable.
- ☐ Atomic variable.
- ☒ Content variable.
- ☐ Server variable.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Content variable.

10) When a user of a web application presses "Refresh" button due to delay in loading a **1 point** page, what kind of transition does it cause in the underlying component interaction model?

- ☐ It causes a simple link transition.
- ☐ It causes a redirect transition.
- ☒ It causes an operational transition.
- ☐ It causes a reload transition.

Yes, the answer is correct.

Score: 1

Accepted Answers:

It causes an operational transition.