

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

Week 2

Week 3

Week 4

Week 5

Week 6

☒ Logic Coverage Criteria: Applied to Test Code_1 (unit? unit=52&lesson=53)

☐ Logic Coverage Criteria: Applied to Test Code_2 (unit? unit=52&lesson=54)

Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2021-09-08, 23:59 IST.

Assignment submitted on 2021-09-08, 21:19 IST

1) Which of the following techniques are used to avoid using ACC criteria in logic based testing? **1 point**

- ☒ Predicate transformation to eliminate multiple clauses.
☐ Predicate transformation to ensure ACC criteria becomes easier.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Predicate transformation to eliminate multiple clauses.

2) While generating logic-based test cases for guards in finite state machines, which of the following will an infeasible test requirement indicate? **1 point**

- ☐ The predicates are incomplete.
☐ The predicates are inconsistent.
☒ There is an error in the model that the predicate is a part of.
☐ There is an error in the connectives of the predicates.

Yes, the answer is correct.
Score: 1

Accepted Answers:
There is an error in the model that the predicate is a part of.

Answer the following questions for the method **twoPred()** below. The method is called with

☐ Logic
Coverage
Criteria: Issues
in Applying to
Test Code
(unit?
unit=52&lesson=55)

☐ Logic
Coverage
Criteria:
Applied to Test
Specifications
(unit?
unit=52&lesson=56)

☒ Logic
Coverage
Criteria:
Applied to
Finite State
Machines
(unit?
unit=52&lesson=57)

☐ Week 6
Feedback
Form:
Software
Testing (unit?
unit=52&lesson=58)

☐ Practice: Week
6: Assignment
6 (Non
Graded)
(assessment?
name=115)

☒ **Quiz: Week 6:
Assignment 6
(assessment?
name=129)**

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

**DOWNLOAD
VIDEOS**

two input parameters **x** and **y**. The variable **z** is internal to the method.

```
public String twoPred (int x, int y)
{
    boolean z;
    if (x < y)
        z = true;
    else
        z = false;
    if (z && x+y == 10)
        return "Yes";
    else
        return "No";
}
```

3) The variable **z** in the second predicate can be re-written in terms of **x** and **y**. Which **0 points** of the following represents the re-written second predicate?

- ☐ ((x < y) && (x+y == 10).
☐ (x>=y) && (x+y == 10).

No, the answer is incorrect.
Score: 0

Accepted Answers:
(x>=y) && (x+y == 10).

4) State yes or no: Predicate coverage for the first predicate will also subsume predicate coverage for the second predicate.

1 point

- ☐ Yes.
☒ No.

Yes, the answer is correct.
Score: 1

Accepted Answers:
No.

5) How many test cases will be needed for clause coverage for the second predicate if we explicitly count the true and false values for each clause?

- ☐ Two test cases.
☒ Four test cases.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Four test cases.

6) State true or false: The set of test case inputs {(x = 5, y = 3), (x = 4, y = 6), (x = 5, y = 6)} will satisfy clause coverage for the second predicate.

- ☒ True.
☐ False.

Yes, the answer is correct.
Score: 1

Accepted Answers:
True.

7)

1 point

Text Transcripts**Books**

State yes or no: The set of test case inputs $\{(x = 5, y = 3), (x = 4, y = 6), (x = 5, y = 6)\}$ will also satisfy predicate coverage for the first and second predicates.

- ☒ Yes.
☐ No.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes.

8) How many test cases are needed for satisfying RACC for all the clauses for the second predicate? **1 point**

- ☐ Two test cases.
☒ Three test cases.
☐ Four test cases.
☐ Six test cases.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Three test cases.

9) State true or false: The set of test case inputs $\{(x = 4, y = 6), (x = 6, y = 4), (x = 4, y = 5)\}$ satisfy RACC for the second predicate. **1 point**

- ☒ True.
☐ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.

10) State true or false: RICC has no feasible pairs of test cases for the second predicate to be true. **1 point**

- ☒ True.
☐ False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.