

Answer Submitted.

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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 ()

- ☐ Lecture 5 - Basics of Graphs: As used in testing (unit? unit=23&lesson=24)
- ☐ Lecture 6 - Structural Graph Coverage Criteria (unit? unit=23&lesson=25)
- ☐ Lecture 7 - Elementary Graph Algorithms

Week 2 : Assignment 2 (Non Graded)

Assignment not submitted

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) When do we say that a test path p tours a path q

1 point

- ☒ We say that a test path p tours a path q if q is a sub-path of p .
- ☐ We say that a test path p tours a path q if p is a sub-path of q .

Yes, the answer is correct.

Score: 1

Accepted Answers:

We say that a test path p tours a path q if q is a sub-path of p .

2) How many requirements are there for edge pair coverage?

1 point

- ☐ 10 requirements.
- ☒ 12 requirements.

Yes, the answer is correct.

Score: 1

Accepted Answers:

12 requirements.

3) Which of the following test paths satisfy node coverage but not edge coverage on the graph?

1 point

- ☐ Test path [1, 2, 4, 6, 1, 7].
- ☒ Test path [1, 2, 4, 5, 6, 1, 7].
- ☐ Test path [1, 2, 3, 2, 4, 6, 1, 7].



(unit?
unit=23&lesson=26)

☒ Lecture 8 -
Elementary
Graph
Algorithms -
Part 2 (unit?
unit=23&lesson=27)

☐ Lecture 9 -
Algorithms:
Structural
Graph
Coverage
Criteria (unit?
unit=23&lesson=28)

☐ Practice:
Week 2 :
Assignment 2
(Non Graded)
(assessment?
name=113)

☒ Quiz: Week 2 :
Assignment 2
(assessment?
name=137)

☐ Week 2
Feedback
Form:
Software
Testing (unit?
unit=23&lesson=125)

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

☐ Test path [1, 2, 3, 2, 4, 5, 6, 1, 7].

No, the answer is incorrect.

Score: 0

Accepted Answers:

Test path [1, 2, 3, 2, 4, 5, 6, 1, 7].

4) What do the prime paths [2, 3, 2] and [3, 2, 3] together represent?

1 point

☐ They represent two ways of going around the loop between the vertices 2 and 3.

☒ They represent more than one iteration of the loop between the vertices 2 and 3.

Yes, the answer is correct.

Score: 1

Accepted Answers:

They represent more than one iteration of the loop between the vertices 2 and 3.

5) Consider the simple path [3, 2, 4, 5, 6] and test path [1, 2, 3, 2, 4, 6, 1, 2, 4, 5, 6, 1, 7]. Does the test path tour the simple path directly or with a sidetrip? **1 point**

☒ The test path tours the simple path directly.

☐ The test path tours the simple path with a side trip [4, 6, 1, 2, 4].

No, the answer is incorrect.

Score: 0

Accepted Answers:

The test path tours the simple path with a side trip [4, 6, 1, 2, 4].

Check Answers and Submit

Your score is: 3/5



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