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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 6 - Assignment Solving (unit?unit=59&lesson=60)
- Functional Testing (unit?unit=59&lesson=61)
- Input Space Partitioning

Week 7: Assignment 7

The due date for submitting this assignment has passed.

Due on 2021-09-15, 23:59 IST.

Assignment submitted on 2021-09-15, 23:36 IST

1) Test cases for black box testing are designed based on which of the follow- ing? ***1 point***

- Test cases are designed based on the code to be tested.
- Test cases are designed based on the design documentation.
- Test cases are taken directly from requirements.
- (selected) Test cases are designed based on inputs and outputs only.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Test cases are designed based on inputs and outputs only.

2) State true or false: All inputs from one partition of inputs in equivalence class partitioning will result in the same output when the program is run on them. ***1 point***

- (selected) True.
- False.

Yes, the answer is correct.
Score: 1

Accepted Answers:
True.

3) Which of the following techniques handle multiple inputs by considering different combinations of equivalence classes? ***1 point***

- Boundary value analysis.

(unit?unit=59&lesson=62)
Input Space Partitioning: Coverage Criteria (unit?unit=59&lesson=63)
Input Space Partitioning Coverage Criteria: Example (unit?unit=59&lesson=64)
Week 7 Feedback Form: Software Testing (unit?unit=59&lesson=65)
Practice: Week 7: Assignment 7 (Non Graded) (assessment?name=116)
Quiz: Week 7: Assignment 7 (assessment?name=130)
Week 8
Week 9
Week 10
Week 11
Week 12
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- Functional testing.
- Decision tables.
- Orthogonal arrays.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Decision tables.

4) State true or false: In input space partitioning, both valid and invalid inputs need to be considered. ***1 point***

- True.
- False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
True.

5) State yes or no: In input space partitioning, overlapping and missing partitions are allowed as long as they are values at the boundaries. ***1 point***

- Yes.
- No.

Yes, the answer is correct.
Score: 1
Accepted Answers:
No.

6) Why is Each Choice Coverage (ECC) considered to be a weak criterion? ***1 point***

- No combinations of values are considered.
- Only one choice is considered throughout.

Yes, the answer is correct.
Score: 1
Accepted Answers:
No combinations of values are considered.

7) Which of the following represents the total number of tests for all combinations coverage? In the options below, n is the number of partitions and B_i is the number of blocks in partition i. ***1 point***

- The total number of tests will be $\Pi_{i=1}^{n} B_i$
- The total number of tests will be $\Sigma_{i=1}^{n} B_i$

Yes, the answer is correct.
Score: 1
Accepted Answers:
The total number of tests will be $\Pi_{i=1}^{n} B_i$

8) State true or false: A test case for pair-wise coverage can cover more than one pair of values. ***1 point***

- True.
- False.

Yes, the answer is correct.
Score: 1

Accepted Answers:
True.

9) When does T -wise coverage criterion become the same as all combinations coverage criterion? ***1 point***

- When the value for T is the maximum value in a partition.
- When the value for T is equal to the number of partitions.

Yes, the answer is correct.
Score: 1

Accepted Answers:
When the value for T is equal to the number of partitions.

10) Which of the following represents a correct order of subsumption amongst coverage criteria for input space partitioning? ***1 point***
In the options below read the symbol → as “subsumes”.

- Multiple base choice coverage → Pair-wise coverage → Each choice coverage.
- T-wise coverage → Multiple base choice coverage → Pair-wise cover- age.
- Multiple base choice coverage → Base choice coverage → Each choice coverage.
- Pair-wise coverage → Base choice coverage → Each choice coverage.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Multiple base choice coverage → Base choice coverage → Each choice coverage.