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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 ()

- Assignment 4:GraphCoverageCriteria (unit?unit=45&lesson=46)
- Logic: Basics
 Needed for
 Software
 Testing (unit?
 unit=45&lesson=47)

Week 5 : Assignment 5

The due date for submitting this assignment has passed.

Due on 2022-08-31, 23:59 IST.

Assignment submitted on 2022-08-31, 20:49 IST

1) State true or false: GACC subsumes predicate coverage.

1 point

- True.
- False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

False.

- 2) When we test to check if a particular clause does not determine a predicate, which *1 point* kind of coverage criteria are we considering?
 - Active coverage criteria.
 - Inactive coverage criteria

Yes, the answer is correct.

Score: 1

Accepted Answers:

Inactive coverage criteria

- 3) Which of the following represents a correct order of subsumption amongst logic **1 point** coverage criteria? In the options below, read \rightarrow as 'subsumes'.
 - Correlated active clause coverage → Predicate coverage → Clause coverage.
 - Combinatorial coverage → Predicate coverage → Clause coverage.
 - Combinatorial coverage → Correlated active clause coverage → Predicate coverage.
 - General active clause coverage → Correlated active clause coverage → Clause coverage.

- Logic: Coverage Criteria (unit? unit=45&lesson=48)
- Coverage Criteria, Contd. (unit? unit=45&lesson=49)
- Logic Coverage Criteria (unit? unit=45&lesson=50)
- Week 5
 Feedback
 Form:
 Software
 Testing (unit?
 unit=45&lesson=128)
- Quiz: Week 5
 : Assignment
 5
 (assessment?
 name=140)

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Learning Materials ()

DOWNLOAD VIDEOS ()

Text
Transcripts ()

Live sessions ()

Books ()

Yes, the answer is correct.

Score: 1

Accepted Answers:

Combinatorial coverage → Correlated active clause coverage → Predicate coverage.

Consider the logical predicate $p=a\vee (b\wedge c)$. Truth table for the predicate is given below with rows numbered from 1 to 8. T represents the Boolean value true and F represents the Boolean value false.

	a	b	c	p
1	T	T	T	Т
2	\mathbf{T}	T	F	T
3	Т	F	Т	Т
4	Т	F	F	T
5	F	T	Т	T
6	F	\mathbf{T}	F	F
7	F	F	T	F
8	F	F	F	F

Answer the following questions with reference to logical coverage criteria for this predicate and the given truth table.

4) Which of the following represents p_a , the conditions under which clause a **1 point** determines p?

 $b \wedge c$. $b \vee c$. $\neg b \vee \neg c$.

 $\neg b \wedge \neg c$.

Yes, the answer is correct.

Score: 1

Accepted Answers:

 $\neg b \lor \neg c$.

5) Which of the following represents pb, the conditions under which clause b 1 point determines p?

 $a \wedge c$. $a \vee c$. $\neg a \wedge c$. $\neg a \wedge c$. $\neg a \vee \neg c$

Yes, the answer is correct.

Score: 1

Accepted Answers:

 $\neg a \wedge c$.

6) Which of the following represents p_c , the conditions under which clause c	1 point
determines p ?	
$ eg a \wedge b. $	
$ eg a \lor b.$	
Yes, the answer is correct. Score: 1	
Accepted Answers: $ eg a \wedge b$.	
7) Which of the following represents GACC pairs for clause a ? Note: Numbers below represent row numbers from the truth table.	1 point
$\{2,3,4\} imes\{6,7,8\}.$ $\{1,3,4\} imes\{5,6,7\}.$	
$\{1,3,4\} imes\{5,6,7\}.$	
Yes, the answer is correct. Score: 1	
Accepted Answers: $\{2,3,4\} imes\{6,7,8\}.$	
8) State true or false: GACC pairs for clauses b and c are the same.	1 point
True.	
False	
Yes, the answer is correct. Score: 1	
Accepted Answers: False	
9) The set $\{(2,6),(3,7),(4,8)\}$ is the set of RACC pairs for which clause?	1 point
Clause a.	
Clause b.	
Yes, the answer is correct. Score: 1	
Accepted Answers: Clause a.	
10) State true or false: CACC pairs for clauses a, b and c are different from GACC pairs for these clauses.	3 1 point
○ True.	
© False	
Yes, the answer is correct. Score: 1	
Accepted Answers:	

False