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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:
 Graph
 Coverage
 Criteria (unit?
 unit=35&lesson=36)
- Logic: Basics
 Needed for
 Software
 Testing (unit?
 unit=35&lesson=37)
- Logic: Coverage Criteria (unit? unit=35&lesson=38)

Assignment 5

The due date for submitting this assignment has passed.

Due on 2020-10-21, 23:59 IST.

Assignment submitted on 2020-10-14, 20:10 IST

- 1) State true or false: A clause is an expression that may or may not have logical *1 point* connectives and also evaluates to a Boolean value.
 - True.
 - False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

- 2) Which of the following represents correct subsumption order among logic coverage 1 point criteria? In the options below, read \rightarrow as "subsumes".
 - Combinatorial coverage → General active clause coverage → Predicate coverage.
 - Predicate coverage → Correlated active clause coverage.
 - © Combinatorial coverage → Correlated active clause coverage → Predicate coverage.
 - General active clause coverage → General inactive clause covrage

Yes, the answer is correct.

Score: 1

Accepted Answers:

Combinatorial coverage \rightarrow Correlated active clause coverage \rightarrow Predicate coverage.

The following eight questions are based on the logical predicate $p=a\vee (b\wedge c)$. Truth table for the predicate is given below with rows numbered. T represents the Boolean value true and F represents the Boolean value false.

- Coverage Criteria, Contd. (unit? unit=35&lesson=39)
- LogicCoverageCriteria (unit?unit=35&lesson=40)
- Feedback for week 5 (unit? unit=35&lesson=41)
- Quiz: Assignment 5 (assessment? name=120)

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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8 8	a	b	c	р
1	Т	Т	Т	Т
2	T	Т	F	Τ
3	Т	F	Т	Т
4	Т	F	F	Т
5	F	T	T	T
6	F	Т	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.

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

 $b \lor c$

 \cup

 $b \wedge c$

 $eg b \wedge
eg c$

 $\neg b \vee \neg c$

Yes, the answer is correct.

Score: 1

Accepted Answers:

 $\neg b \lor \neg c$

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

 $a \lor c$



 $a \wedge c$

 $eg a \wedge c$

 $\neg a \vee \neg c$

Yes, the answer is correct.

Score: 1

Accepted Answers:

 $eg a \wedge c$

5) Which of the following represents p_c , the conditions under which clause c determines p?

 $a \lor b$

1 point

$a \wedge b$	
$ eg a \wedge b$	
eg a ee eg b	
Yes, the answer is correct. Score: 1	
Accepted Answers: $ eg a \wedge b$	
6) Which of the following represents GACC pairs for clause a ? Note: Numbers below represent row numbers from the truth table.	1 point
○ {1, 3, 4} × {5, 6, 7}	
Yes, the answer is correct. Score: 1	
Accepted Answers: {2, 3, 4} × {6, 7, 8}	
7) State true or false: There is only one GACC pair for clause b .	1 point
True	
False	
Yes, the answer is correct. Score: 1	
Accepted Answers: True	
8) State true or false: There is only one GACC pair for clause c and it is (5, 6).	1 point
True	
False	
Yes, the answer is correct. Score: 1	
Accepted Answers: True	
9) The set {(2, 6), (3, 7), (4, 8)} is the set of RACC pairs for which clause?	1 point
Clause a	
Clause b	
Clause c	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
Clause a	
10) State true or false: CACC pairs for clauses <i>b</i> and <i>c</i> are different from GACC pairs for these clauses	1 point

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