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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

- Assignment 4:
 Graph
 Coverage
 Criteria (unit?
 unit=45&lesson=46)
- Logic: Basics
 Needed for
 Software
 Testing (unit?
 unit=45&lesson=47)
- Coverage
 Criteria (unit?
 unit=45&lesson=48)

Week 5: Assignment 5

The due date for submitting this assignment has passed.

Due on 2021-09-01, 23:59 IST.

Assignment submitted on 2021-09-01, 22:03 IST

1) For a predicate with n clauses, how many test requirements suffice to achieve **1** point active clause coverage?

n test requirements.

n + 1 test requirements.

n – 1 test requirements.

2n test requirements.

Yes, the answer is correct.

Score: 1

Accepted Answers:

n + 1 test requirements.

- 2) State true or false: Correlated ICC does not make sense as the major clause does **1 point** not determine the predicate.
 - True.
 - False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

True.

Coverage Criteria,	3) For a predicate p and a clause c in p , if p_c evaluates to false, then which of the following holds true?	1 point
Contd. (unit? unit=45&lesson=49)		
	ACC criteria are infeasible for p with respect to c .	
Coverage		
Criteria (unit?	ICC criteria are infeasible for p with respect to c .	
unit=45&lesson=50)	Yes, the answer is correct. Score: 1	
Week 5	Accepted Answers:	
Feedback Form:	ACC criteria are infeasible for p with respect to c .	
Software	4) Which of the following represents a correct order of subsumption among logic	1 point
Testing (unit? unit=45&lesson=51)	coverage criteria? In the options below, read \rightarrow as "subsumes'.	
Practice: Week	igcolong Combinatorial coverage $ o$ GACC $ o$ Clause coverage.	
5: Assignment	Combinatorial coverage → GACC → Predicate coverage.	
5 (Non Graded) (assessment?	Yes, the answer is correct. Score: 1	
name=114)	Accepted Answers:	
Quiz: Week 5:	Combinatorial coverage → GACC → Clause coverage.	
Assignment 5		
(assessment? name=128)	For the questions below, consider a predicate $p=(a\lor b)\land (c\lor d)$. Answer the follow questions with reference to applying the various logic coverage criteria on this predicate.	
Week 6	5) How many clauses are there in the predicate p ?	1 point
Week 7	One.	
	○ Two.	
Week 8	Three.	
Week 0	Four.	
Week 9	Yes, the answer is correct. Score: 1	
Week 10	Accepted Answers:	
Week 11	Four.	
	6) What is the value of p when $a=b=d=True$ and $c=False$?	1 point
Week 12	True.	
DOWNLOAD	○ False.	
VIDEOS	Yes, the answer is correct.	
	Score: 1 Accepted Answers:	
Text Transcripts	True.	
Books	7) For how many combinations of values of the various clauses, does the predicate p	1 point
	become false?	•
	○ Two.	
	O Four.	
	Seven.	
	○ Eight.	
	Yes, the answer is correct.	
	Score: 1	

Accepted Answers:

Seven.

8) Which of the following is p_a , the predicate under which clause a determines p? **1** point

$$p_a = b \wedge (c ee d).$$

$$p_a = \neg b \wedge (c \vee d).$$

Yes, the answer is correct.

Score: 1

Accepted Answers:

$$p_a = \neg b \wedge (c \vee d).$$

9) Which of the following is p_c , the predicate under which clause c determines p? **1** *point*

$$p_c = \lnot d \land (a \lor b).$$

$$p_c = \neg d \lor (a \lor b).$$

Yes, the answer is correct.

Score: 1

Accepted Answers:

$$p_c = \neg d \wedge (a \vee b).$$

10) Which of the following sets represent the GACC pairs for clause a?

1 point

- The set {5, 6} × {13, 14}.
- The set {5, 6, 7} × {13, 14, 15}.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The set {5, 6, 7} × {13, 14, 15}.