X

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 active clause coverage? ***1 point***

- 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 not determine the predicate. ***1 point***

- True.
- False.

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

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***

- ACC criteria are infeasible for p with respect to c.
- ICC criteria are infeasible for p with respect to c.

Yes, the answer is correct.
Score: 1
Accepted Answers:
ACC criteria are infeasible for p with respect to c.

4) Which of the following represents a correct order of subsumption among logic coverage criteria? In the options below, read → as "subsumes'. ***1 point***

- Combinatorial coverage → GACC → Clause coverage.
- Combinatorial coverage → GACC → Predicate coverage.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Combinatorial coverage → GACC → Clause coverage.

For the questions below, consider a predicate $p = (a \vee b) \wedge (c \vee d)$. Answer the following questions with reference to applying the various logic coverage criteria on this predicate.

5) How many clauses are there in the predicate p? ***1 point***

- One.
- Two.
- Three.
- Four.

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

6) What is the value of p when $a = b = d = True$ and $c = False$? ***1 point***

- True.
- False.

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

7) For how many combinations of values of the various clauses, does the predicate p become false? ***1 point***

- Two.
- 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***

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

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***

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

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}.