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Gradiance Online Accelerated Learning

Homework Assignment Submitted Successfully.

You obtained a score of 100.0 points, out of a possible 100.0 points.
You have answered all the questions correctly.

Congratulations, you have achieved the maximum possible score.

Submission number:	525957
Submission certificate:	JA085745
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Number of questions:	5
Positive points per question:	20.0
Negative points per question:	0.0
Your score:	100

1. Consider the following schedule of operations:

r1(X), r1(Y), w1(Y), r2(Z), w1(X), r3(X), w3(X), w2(Z)

Which of the following schedules is conflict equivalent to this schedule?

a) r1(X), r2(Z), r1(Y), w1(Y), w1(X), r3(X), w2(Z), w3(X)
b) r1(Y), r1(X), w1(Y), r2(Z), r3(X), w3(X), w1(X), w2(Z)
c) r1(X), r1(Y), w1(Y), r2(Z), r3(X), w1(X), w3(X), w2(Z)
d) r1(X), r1(Y), r2(Z), r3(X), w1(Y), w1(X), w3(X), w2(Z)

Answer submitted: **a)**

You have answered the question correctly.

2. Consider the following transactions:

T1: r1(X), r1(Y), w1(Y)
T2: r2(X), w2(X), r2(Y)

Which of the following is a TRUE statement about schedules involving the operations of T1 and T2?

a) There are exactly 9 conflict-serializable schedules
b) There are exactly 10 schedules that are conflict equivalent to (T1, T2)
c) There are exactly 4 schedules that are conflict equivalent to (T1, T2)
d) There are exactly 8 conflict-serializable schedules

Answer submitted: **a)**

You have answered the question correctly.

3. Consider the following transaction schedule:

r1(X), r1(Y), w1(Y), r2(Z), w1(X), r2(Y), r3(X), w2(Y), w3(X), w2(Z)

Which of the following is a TRUE statement about this schedule?

a) The schedule is conflict-equivalent to (T2, T3, T1)
b) The schedule is conflict-equivalent to (T2, T1, T3)
c) The schedule is not conflict serializable
d) The schedule is conflict serializable

Answer submitted: **d)**

You have answered the question correctly.

4. Consider the following schedule *S*:

$r_1(X), w_1(Y), r_2(Y), w_2(Z), w_1(X), c_1, w_2(X), c_2$

Tell whether *S* is serial? serializable? recoverable? ACR (avoids cascading rollback)? Then, indicate which of the following is TRUE about *S*?

a) S is serial and S does not avoid cascading rollback
b) S is not serializable and S avoids cascading rollback
c) S is not serializable and S does not avoid cascading rollback
d) S is not serial and S does not avoid cascading rollback

Answer submitted: **d)**

You have answered the question correctly.

5. Which of the following schedules is recoverable, but does not avoid cascading rollback and is not serializable?

a) $r_1(X), r_2(Y), w_1(Y), w_1(Z), r_2(Z), c_1, w_2(X), w_2(Z), c_2$
b) $r_1(Y), w_1(X), r_2(Y), w_2(Z), w_1(Z), c_1, w_2(X), w_2(Y), c_2$
c) $r_1(X), w_1(Z), r_2(Y), w_1(Y), c_1, r_2(Z), w_2(X), w_2(Z), c_2$
d) $r_2(X), r_1(X), w_2(Y), r_2(Z), r_1(Y), w_2(Z), c_2, w_1(X), c_1$

Answer submitted: **a)**

You have answered the question correctly.