Started on	Friday, 27 October 2023, 12:04 PM
State	Finished
Completed on	Friday, 27 October 2023, 7:41 PM
Time taken	7 hours 37 mins
Grade	**3.60** out of 4.00 (**90**%)
Feedback	3.6/4

Question 1

Flag question Mark 0.40 out of 0.40 Correct

If a redundant constraint is removed from a LP problem, neither the feasible region nor the current optimal solution will change

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 2

Flag question Mark 0.40 out of 0.40 Correct

Multiplying all the objective function coefficients of a LP problem with a positive constant will not change the optimal objective function value.

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 3

Flag question Mark 0.00 out of 0.40 Incorrect

If a binding constraint is removed from the model, the new optimal objective function value may be worse than that of the original model

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 4

Flag question Mark 0.40 out of 0.40 Correct

The addition of a new constraint may improve the value of the objective function in minimization problems

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 5

Flag question Mark 0.40 out of 0.40 Correct

If a non-binding constraint is removed from the model, neither the feasible region nor the current optimal solution will change.

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 6

Flag question Mark 0.40 out of 0.40 Correct

A linear programming model can be unbounded only if there are no constraints on the decision variables

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 7

Flag question Mark 0.40 out of 0.40 Correct

A linear programming model may have several optimal solutions

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 8

Flag question Mark 0.40 out of 0.40 Correct

When a new constraint is added, if the current optimal solution satisfies the constraint, then the solution is optimal to the new problem as well.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 9

Flag question Mark 0.40 out of 0.40 Correct

Multiplying all the objective function coefficients of a LP problem with a positive constant will not change the optimal decision variable values

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 10

Flag question Mark 0.40 out of 0.40 Correct

If the optimal objective function value of a maximization linear programming problem is +Infinity, then the problem does not have any ≤ -constraints

Select one:

- True
- False ✔

The correct answer is 'False'.

Finish review

Previous activity
⇥ 4 - Fixed cost model

Next activity
Assignment 1: Spreadsheets ⇤