Question 2

Not yet answered

Marked out of 0.50

Flag question

Problem definition entails an attempt to translate an Operations research problem into mathematical relationships

Select one:

- True
- False

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Table 3

$$Max \quad z = \frac{31}{3}x_1 - \frac{10}{3}x_3 + 2$$

subject to

$$-\frac{1}{3}x_1 - x_2 + \frac{1}{3}x_3 = 2$$

$$\frac{22}{3}x_1 - \frac{1}{3}x_3 \leq 33$$

$$x_1, x_2, x_3 \geq 0$$

Select one:

- a. Graphical solution method
- b. Simple Simplex method
- c. M- Method
- d. Slack solution simplex method

7 8 9 10

13 14

Finish attempt ...

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The best solution method for the following linear program model is:

Table 3

$$Max \quad z = \frac{31}{3}x_1 - \frac{10}{3}x_3 + 20$$

subject to

$$-\frac{1}{3}x_1 + x_2 + \frac{1}{3}x_3 = 2$$

$$\frac{22}{3}x_1 - \frac{1}{3}x_3 \leq 33$$

$$x_1, x_2, x_3 \geq 0$$

Question 3

Not yet answered

Marked out of 1.00

Flag question

_____ is the amount by which the left-hand side falls short of the right-hand side in a linear programming model.

Select one:

- a. Surplus
- b. Slack
- c. Shadow price
- d. Comer point

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MINISTIC OPERATIONS RESEARCH

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Problem definition entails an attempt to translate an Operations research problem into mathematical relationships

Select one:

- True
- False

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Question 2

Not yet answered

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Flag question

_____ is the amount by which the left-hand side falls short of the right-hand side in a linear programming model.

Select one:

- a. Surplus
- b. Slack
- c. Shadow price
- d. Comer point

Clear my choice

Quiz na

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$$\frac{1}{3}x_1 + x_2 + \frac{1}{3}x_3 = 2$$

$$\frac{22}{3}x_1 - \frac{1}{3}x_3 \leq 33$$

$$x_1, x_2, x_3 \geq 0$$

Select one:

- a. Graphical solution method
- b. Simple Simplex method
- c. M- Method
- d. Slack solution simplex method

Clear my choice

DETERMINISTIC OPERATIONS RESEARCH

Question 1

Not yet answered

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For the line that has the equation 4X + Y = 80, The Coordinates (x, Y) of the Y axis intercept is (... , ...)

Answer: (0,80)

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1 2 3 4 5

9 10 11 12 13

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The table below represents the optimal solution of phase one for a certain linear program model. If the original objective function is (Min Z = 10 + 2x1 + 8x2 - x3), the coefficients of x1, x2, x3, and s1 in the first feasible solution of phase-two is [ ] respectively.

- 2, 8, -1, 0
- 0, 0, -17, 0
- -2, -8, 1, 0
- 0, 0, -15, 0

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The table below represents the optimal solution of phase one for a certain linear program model. If the original objective function is (Min Z = 10 + 2x1 + 8x2 - x3), the coefficients of x1, x2, x3, and s1 in the first feasible solution of phase-two is [ ] respectively.

- 2, 8, -1, 0
- 0, 0, -17, 0
- -2, -8, 1, 0
- 0, 0, -15, 0

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For both the maximization and the minimization problems, the leaving variable is the basic variable associated with the smallest nonnegative ratio with strictly positive denominator.

Select one:

- True
- False

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Follow the Graphical solution method to answer the following:

a. Identify Graphically the feasible solution space

b. Identify the corner points

c. Identify the Optimal Solution

d. Explain if the point (1, 0) is a feasible solution or not, explain,?

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The _____ is an expression in linear programming models that states mathematically what is being maximized or minimized.

Select one:

- a. Decision variables
- b. Objective function
- c. Coefficients
- d. Constraints

Clear my choice

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x1, x2 ≥ 0

The z-row of the first feasible simplex tableau is:

Select one:

a.

Basic	x_1	x_2	s_1	s_2	R_1	R_2	R_3	Solution
Z	-4	-6	0	0	-M	-M	-M	0

b.

Basic	x_1	x_2	s_1	s_2	R_1	R_2	R_3	Solution
Z	-4	-6	0	0	M	M	M	0

c.

Basic	x_1	x_2	s_1	s_2	R_1	R_2	R_3	Solution
Z	-4-6M	-6-16 M	M	M	0	0	0	-18 M

d.

Basic	x_1	x_2	s_1	s_2	R_1	R_2	R_3	Solution
Z	-4+6M	-6+16 M	-M	-M	0	0	0	18 M

Clear my choice

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Question 1

Not yet answered

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Suppose that the second tableau to a certain minimization problem is presented in the table below (M is a very large number).

	x_1	x_2	x_3	R_1	2ND Solution
z	0	M	-7M	0	10-2M
R_1	0	1	7	1	2
x_1	1	1	-5	0	5

The objective coefficient of x3 in the subsequent tableau is: ____

Answer:

Quiz

1 7 8 13 14

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Question 6

Not yet answered

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A manager is interested in deciding production quantities for products A, B, and C. He has an inventory of 20 tons each of raw materials 1, 2, 3, and 4 that are used in the production of products A, B, and C. assume that he can sell all of what he makes. Which of the following statements is c[illegible]ct?

Select one:

- a. The manager can solve this problem graphically
- b. The manager has three decision variables
- c. The manager has three constraints
- d. The manager has four decision variables

Clear my choice

Quiz navigat

1 2 3

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Finish attempt ...

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DETERMINISTIC OPERATIONS RESEARCH

Question 7

Not yet answered

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Flag question

A solution is feasible if it satisfies all the constraints. It is optimal if, in addition to being feasible, it yields the best (maximum or minimum) value of the objective function.

Select one:

- True
- False

DETERMINISTIC OPERATIONS RESEARCH

Question 7

Not yet answered

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Flag question

A solution is feasible if it satisfies all the constraints. It is optimal if, in addition to being feasible, it yields the best (maximum or minimum) value of the objective function.

Select one:

- True
- False