

BA 310: Operations Research
Midterm Examination-Solutions

Question 1 (30 points)

Let X_i be one if activity i is to be frozen and zero otherwise, for $i=1, \dots, 4$.

1. The objective is to save as much cashflow as possible. Hence, the objective function will be

$$\text{Max } Z = 45000 X_1 + 66000 X_2 + 48000 X_3 + 54000 X_4 \quad (1)$$

The urgent need of 100,000 TND of cash flow is formulated as

$$45000 X_1 + 66000 X_2 + 48000 X_3 + 54000 X_4 \geq 100,000 \quad (2)$$

The firm must warrant the operation of at least 2 activities to keep in business is formulated as:

$$X_1 + X_2 + X_3 + X_4 \leq 2 \quad (3)$$

"If activity 1 or 2 is to be frozen, then activity 3 must preserve its operation" is formulated as follows:

$$X_1 + X_2 \leq 2(1 - X_3) \quad (4)$$

"If activities 1 & 2 are to be kept operational, then activity 4 must be frozen" can be formulated as:

$$1 - X_1 - X_2 \leq X_4 \quad (5)$$

Binary variables

$$X_i = 0, 1, i=1, \dots, 4 \quad (6)$$

2. Introduce a new binary variable, Y . Then, change (2) by (2)' & (2)'' where

$$45000 X_1 + 66000 X_2 + 48000 X_3 + 54000 X_4 \geq 130,000Y \quad (2)'$$

$$45000 X_1 + 66000 X_2 + 48000 X_3 + 54000 X_4 \leq 250,000Y \quad (2)''$$

Note that with $Y=1$, the saving in cashflow will be at least 130,000 from (2)'.
Otherwise, (2)'' will force the saving to be zero.

Question 2 (20 points)

Tic the correct statement in each of the following assertions

1. In a branch & bound method, we branch on
 - a. Any non-integer variable
 - b. Specific non-integer variables
2. When branching, the objective value of the relaxed LP's
 - a. Improves
 - b. Degrades
 - c. It depends on the particular case at hand
3. When we encounter an upper bound
 - a. An optimal solution is found
 - b. A feasible solution is found
 - c. An update of upper bounds can be made
 - d. None of the above
4. We stop branching when
 - a. An integer solution is found
 - b. An optimal solution is found
 - c. An infeasible solution is found
 - d. It is no more possible to find an optimal solution
 - e. Any of the above holds

Operations Research Exam Questions And Its Solutions

TD Snyder



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web the pad foundations are shallow foundation that take and spread point loads to the soil safely the pad foundation are preferred if the soil at the site have sufficient strength and is not too deep to construct the thickness of pad foundations are generally uniform

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web design of pad footing cracking detailing requirements all reinforcements should extend the full length of the footing if 1 5 3 at least two thirds of the reinforcement parallel to l_y should be concentrated in a band width $3c$ centred at column where l_x l_y and c are the footing and column dimension in x and y directions

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web design examples 5 and 6 in chapter 11 figures h 2 h 3 and h 4 preliminary estimation of effective depth required for reinforced pad bases in bending these design charts give a preliminary estimate of the effective depth required of a pad foundation in bending beam shear and punching shear respectively given the

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