



ISM-C1004 - Business Analytics 1, Lecture, 23.10.2023-8.12.2023

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Syllabus

Started on	Sunday, 26 November 2023, 3:04 PM
State	Finished
Completed on	Sunday, 26 November 2023, 3:06 PM
Time taken	2 mins 15 secs
Grade	3.50 out of 4.00 (87.5%)
Feedback	3.5/4 points

Question 1

🚩 Flag question Mark 0.50 out of 0.50 Correct

If a non-linear programming problem has a convex feasible region and a convex objective function to be minimized, then the problem is a convex NLP.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 2

🚩 Flag question Mark 0.50 out of 0.50 Correct

The weighted sums approach can find any efficient solution of a MOP problem.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 3

🚩 Flag question Mark 0.00 out of 0.50 Incorrect

For a non-linear programming problem to be concave, the feasible region has to be concave and the concave objective function is to be maximized.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question 4

🚩 Flag question Mark 0.50 out of 0.50 Correct

Evolutionary algorithms are guaranteed to provide a global optimal solution to MILP problems.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 5

🚩 Flag question Mark 2.00 out of 2.00 Correct

Consider a multiobjective programming problem with three objective functions:

$\max f_1(x)$

$\max f_2(x)$

$\min f_3(x)$

The feasible solutions of this problem are given in the table below.

Solution	Objective function values		
	f_1	f_2	f_3
1	10.2	35.7	2.2
2	15.3	40.8	4.4
3	10.2	45.9	6.6
4	15.3	35.7	5.5

Is the solution 3 efficient? Answer "1" for "yes" and "0" for "no".

Answer: ✓

The correct answer is: 1

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Assignment 3: Spreadsheets ▶



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