

## MHY530E DECISION MAKING TECHNIQUES FINAL EXAM

### QUESTION 1 (60 pts.)

This is a personal decision making problem, and therefore the constructed hierarchy and the best choice will depend on individual preferences and priorities

Each student should

- define and describe at least six alternatives (cities, countries, holiday types, trip types, road trip routes, or accommodation types, etc.) explicitly
- define and describe at least five criteria (among five criteria, at least two of them should have sub-criteria) to evaluate the alternatives
- submit the decision hierarchy (AHP model) for her/his vacation decision
- evaluate her/his criteria, sub-criteria and alternatives, making pairwise comparisons
- submit an unweighted supermatrix
- submit a full report
- interpret results

### QUESTION 2 (40 pts.)

This is a personal decision making problem, and therefore the constructed hierarchy and the best choice will depend on individual preferences and priorities

Each student should

- consider the first question's sub-criteria and criteria that do not have sub-criteria as attributes.
- assess the performance values of the alternatives with respect to attributes to form a decision matrix.
- use the importance of the criteria and sub-criteria determined at Question 1 utilizing AHP.
- submit the decision matrix and all related data
- submit PROMETHEE I and II results.
- interpret results