TMA2 CIT425: Operations Research

1. _____ that represents the relationship between the variables in the form of formulas
   Ans: Analytic

2. _____ is an imitation of the step-by-step process involved in the build-up of system relationships
   Ans: Simulation

3. Models that assume that the situation being represented will not change, at least in its essential features, within the operational period, are called
   Ans: Static

4. The Program Evaluation and Review Technique (PERT) uses a model that incorporates some _____ distribution of the durations
   Ans: Probability

5. Linear programming model is an example of _____
   Ans: All of the above

6. Which of the following is not true about Probabilistic model?
   Ans: cannot predict the outcome within a certain stated or known degree of accuracy

7. When changes in the independent or input variables of a relationship result in constant proportional changes in the dependent, or output variables, it is termed
   Ans: Linear

8. In a project management situation, the critical path method (CPM) uses a _____ network model in which the durations of the activities are assumed to be known for certain
   Ans: deterministic

9. To construct a model. You need to observe real-word problem and make assumptions about influencing factors. This is called
   Ans: abstraction

10. A Symbolic model is also known as a
    Ans: Mathematical model