## Assignment 2

The due date for submitting this assignment has been extended.

### Question 1
A model is a set of mathematical relationships that correspond to some real-world relationships.
- A) TRUE
- B) FALSE

### Question 2
A stochastic model is simplified representations of some real-world entity, in equations or computer code.
- A) TRUE
- B) FALSE

### Question 3
Model Management System stores and accesses models that managers use to make decisions.
- A) TRUE
- B) FALSE

### Question 4
Sensitivity analysis is used to examine major changes in the parameters.
- A) TRUE
- B) FALSE

### Question 5
Constraints mean goal is to be achieved.
- A) TRUE
- B) FALSE

### Question 6
A mathematical model of Linear Programming is important because:
- A) It helps in converting verbal descriptions and numerical data into mathematical expressions
- B) Decision makers prefer to work with formal models
- C) It captures the relevant relationships among decision factors
- D) It enables the use of algebraic techniques

### Question 7
The predictive modeling technique which investigates the relationship between a dependent and independent variable.
- A) Regression model
- B) Probabilistic model
- C) Forecasting model
- D) Dynamic model

### Question 8
In graphical method of Linear Programming problem if the objective function line coincides with a side of region of basic feasible solutions, we get
- A) Unique solution
- B) Unbounded solution
- C) Infinite number of solutions
- D) None of these

### Question 9
If the value of the objective function can be increased or decreased indefinitely, each solution is called.
- A) Bounded solution
- B) Unbounded solution
- C) Unique solution
- D) None of these

### Question 10
The situation of 1. Location to build a new plant would be classified as what type of problem?
- A) Structured decision
- B) Unstructured decision
- C) Semi-structured decision
- D) Capital decision

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**Due on**: 2020-09-20, 20:00 IST