What is meant by the term decision analysis?

* a form of decision-making. Ethical decision that involves identifying and assessing all aspects of a decision, and taking actions based on the decision that produces the most favorable outcome.

Define the term computer model.

* is a representation of a real-life system or situation, such as the workings of a nuclear reactor or the evacuation of a football stadium. A collection of rules is created to study what would happen in real-life situations. Changes are made to see how they affect the outcome.

What is the difference between a spreadsheet model and a computer model?

- Spreadsheets are used to represent and manage data sets, create graphical visualizations, and provide information for future planning and decision making. While Computer Model is a program that runs on a computer that creates a model, or simulation, of a real-world feature, phenomenon or event.

Define the term management science.

- Management science can be defined as a problem-solving process used by an interdisciplinary team to develop models that represent simple and complex functional relationships and provide management guidance for decision-making.

What is the relationship between the management science and spreadsheet modeling?

* Management science is a field of study that uses computers, statics and mathematics to solve business problems but spread sheet modeling is a model in which a person can analyze decision alternatives before having to choose a specific plan for implementation.

What kinds of spreadsheet applications would not be considered management science?

* everyone who uses spreadsheet today for model building and decision making is a Practitioner of management science whether they realize it or not.

In what ways do spreadsheet models facilitate the decision making process?

* Using a spreadsheet model a business person can analyze decision alternatives Before having to choose a specific plan for implementation.

What are the benefits of using a modeling approach to decision making?

* • The models are usually simplified version of the object or decision problem they

represent

• It is often less expensive to analysis decision problem

• It often delivers the needed information on a more timely basis

What is dependent variable?

* Dependent variable is that which depends on other variables. For example

Profit= revenue – expenses

In above equation profit is dependent variable because it depends on revenue and

Expenses.

What is an independent variable?

* The independent variable is that which does not depend on other variables. For example

Profit= revenue – expenses

In above equation revenue and expenses are independent variable