

Q1 What are the objective of linear programming?

What is the mathematical form of linear programming problem?

Ans Objective \Rightarrow An objective function represent the mathematical ~~represent~~ the equation of the major goal the system in term of unknown called decision variable. The objective function in linear programming is of optimization type.

For eg: if we are assume that each unit of product A gives the profit of Rs. P_1 and each unit of product B gives the profit of Rs. P_2 and then the objective of the producer.

Mathematical Form of LPP.

Step 1: Identify the number of decision variables which govern the behaviour of objective function

Step 2: Identify the set of constraints on the decision variables and express them in the form of linear equation or linear equation

Step 3: Express the objective function in the form of the linear equation in the decision variable

Step 4: Optimize the objective function either graphically or mathematically.